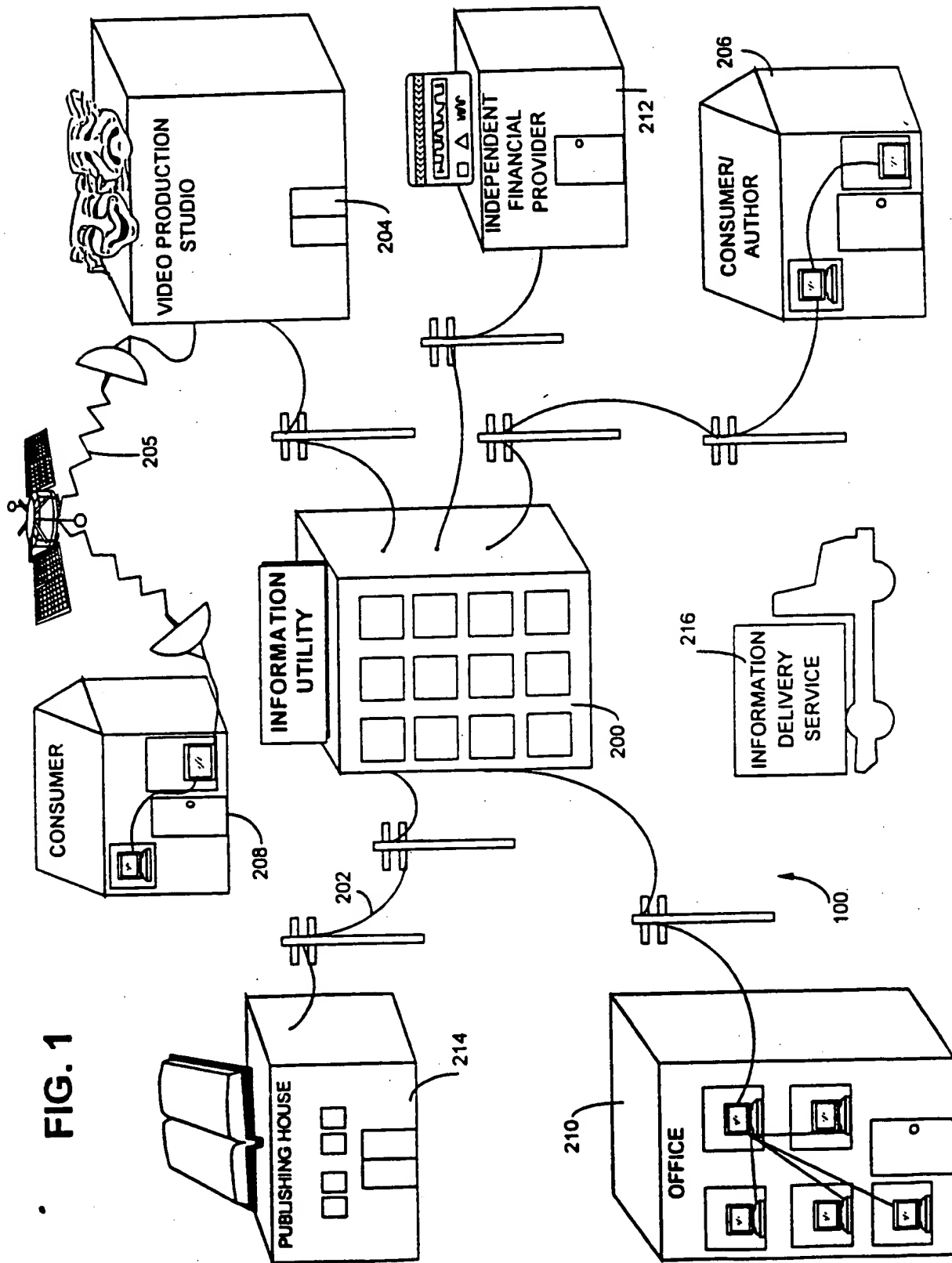


FIG. 1



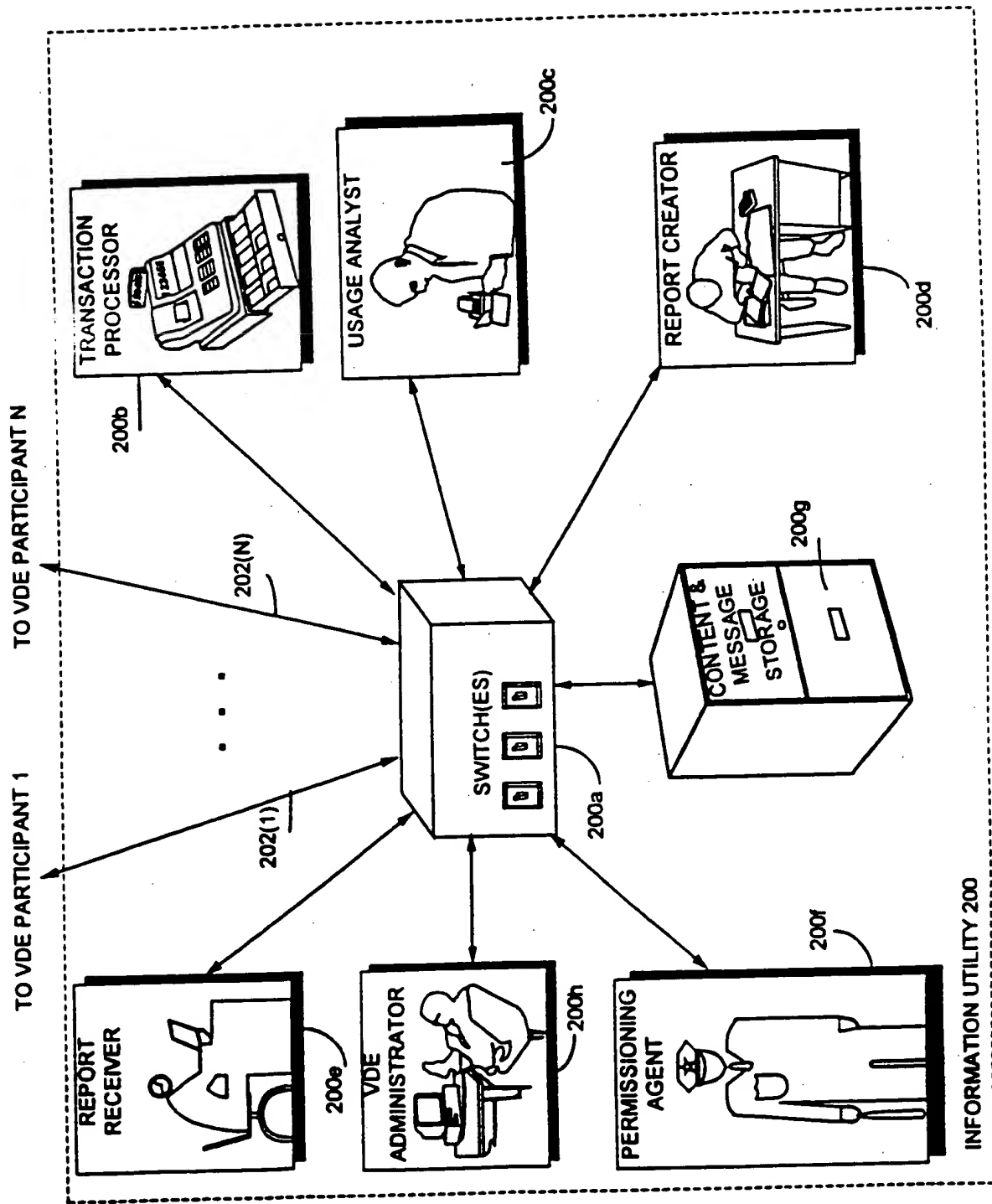


FIG. 1A

FIG. 2

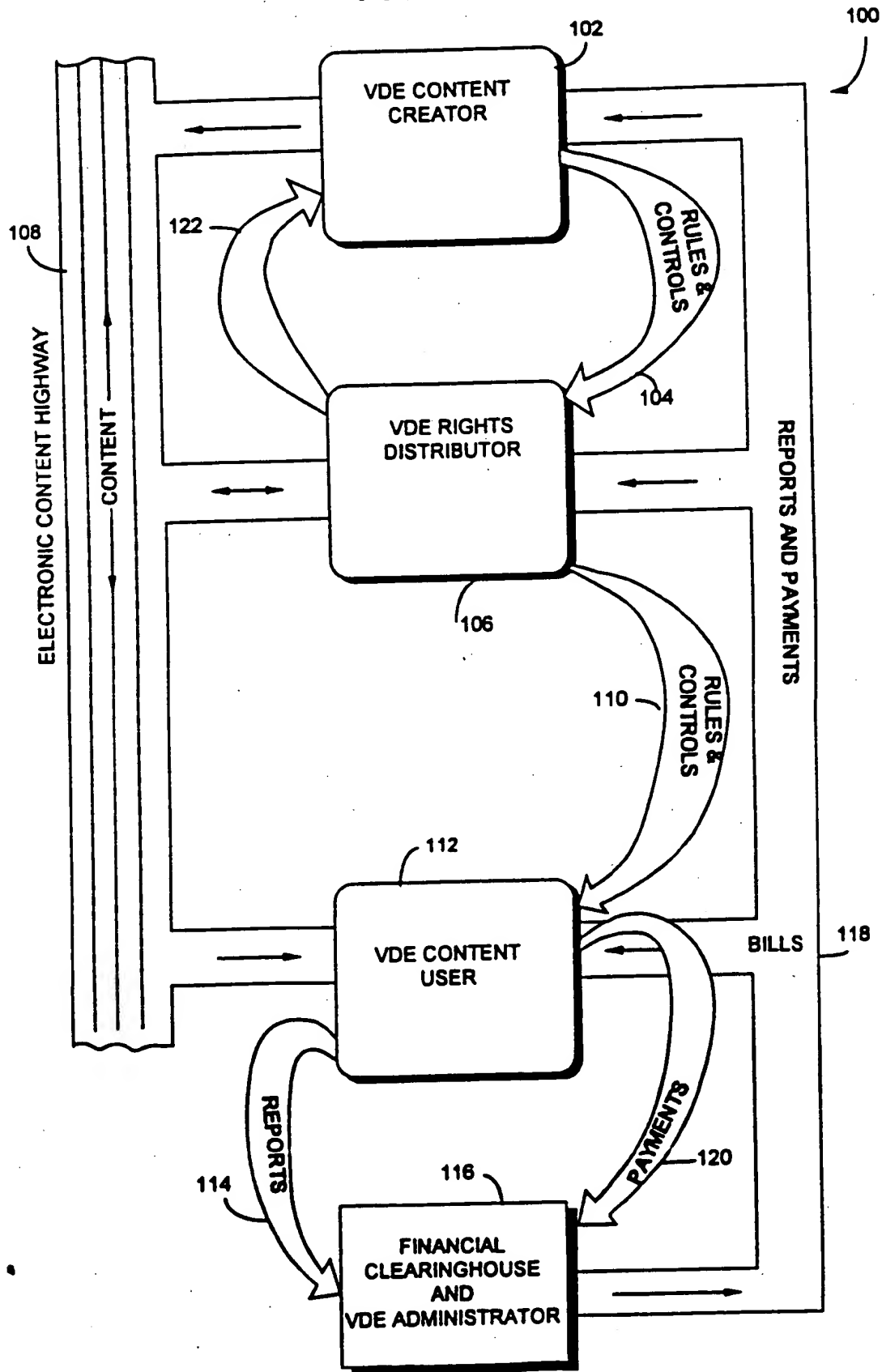


FIG. 2A

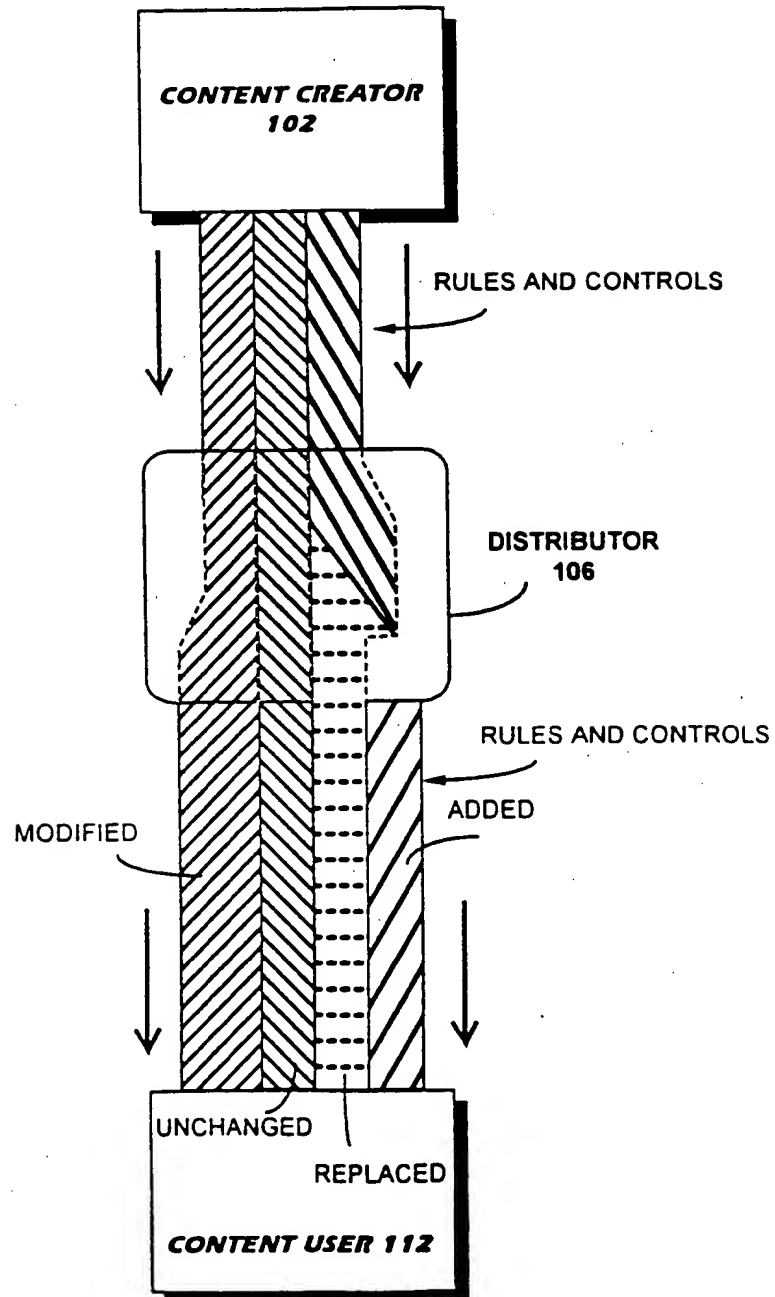
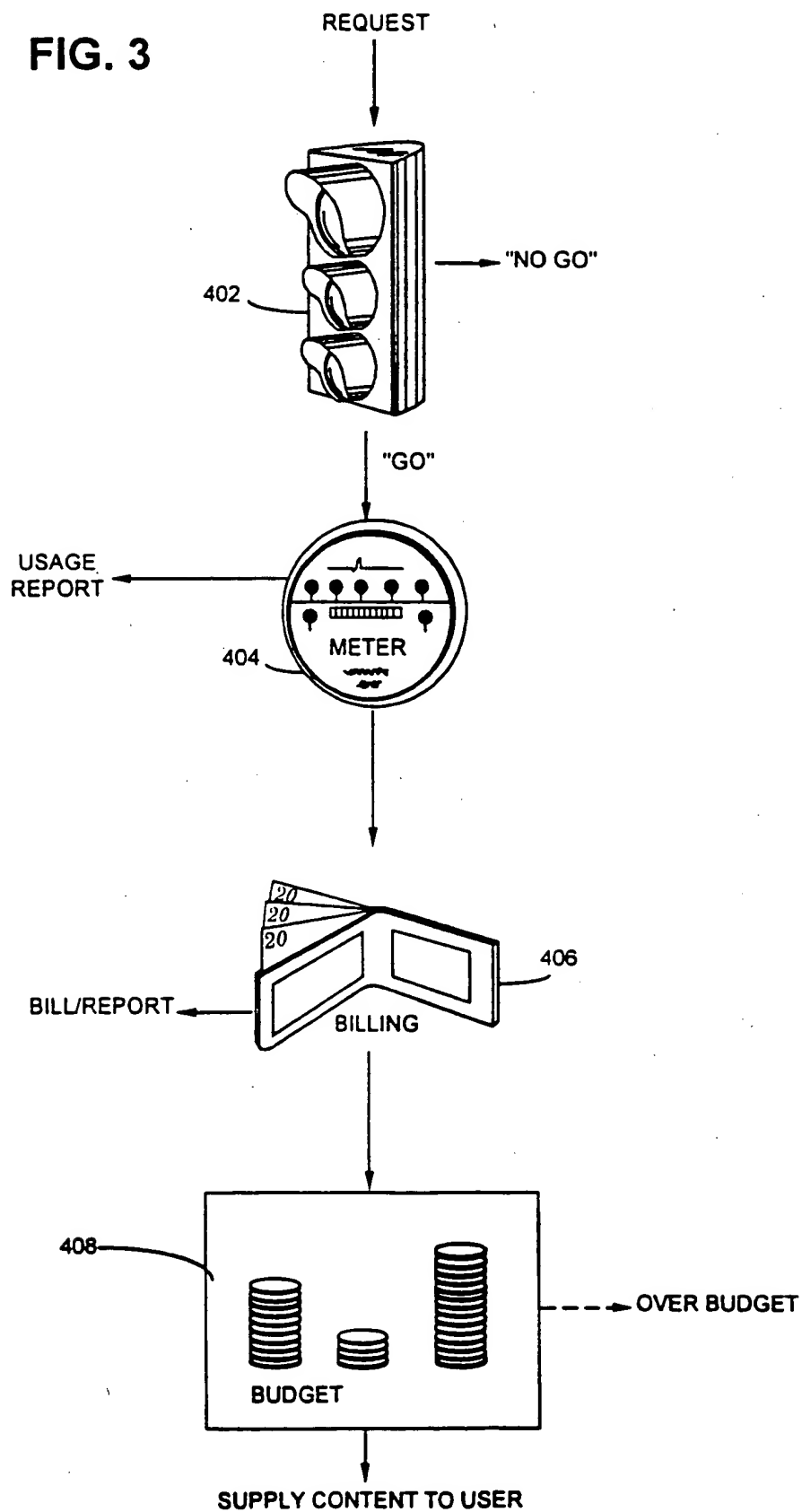


FIG. 3



for "02649460

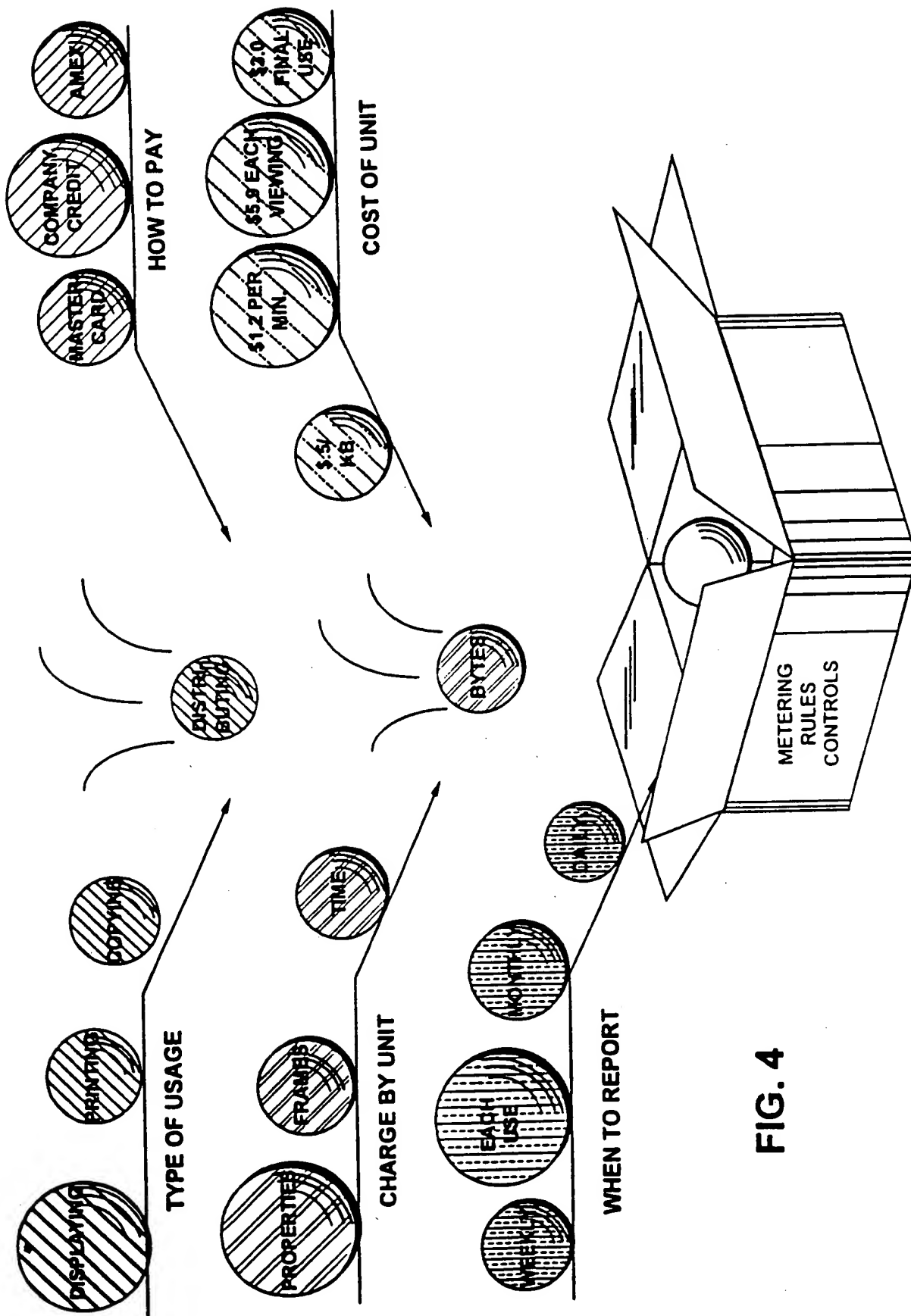
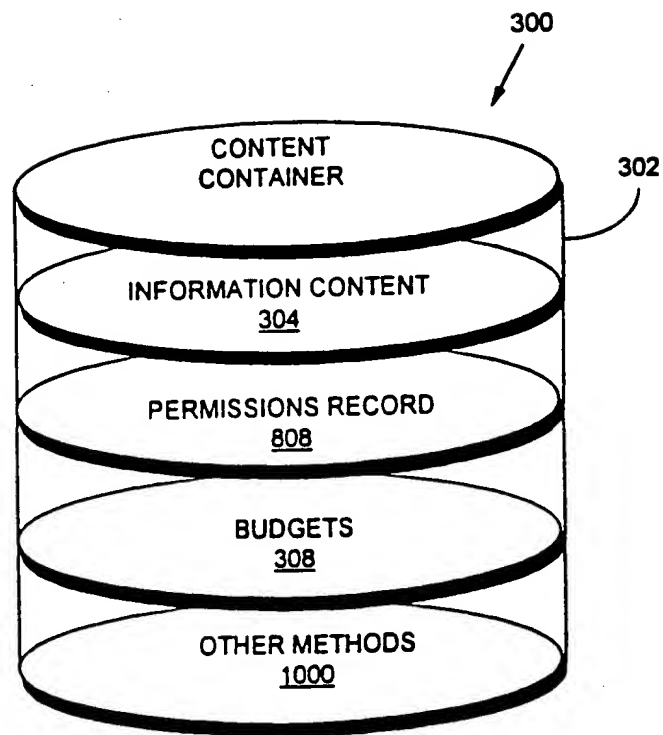


FIG. 4

**FIG. 5A**



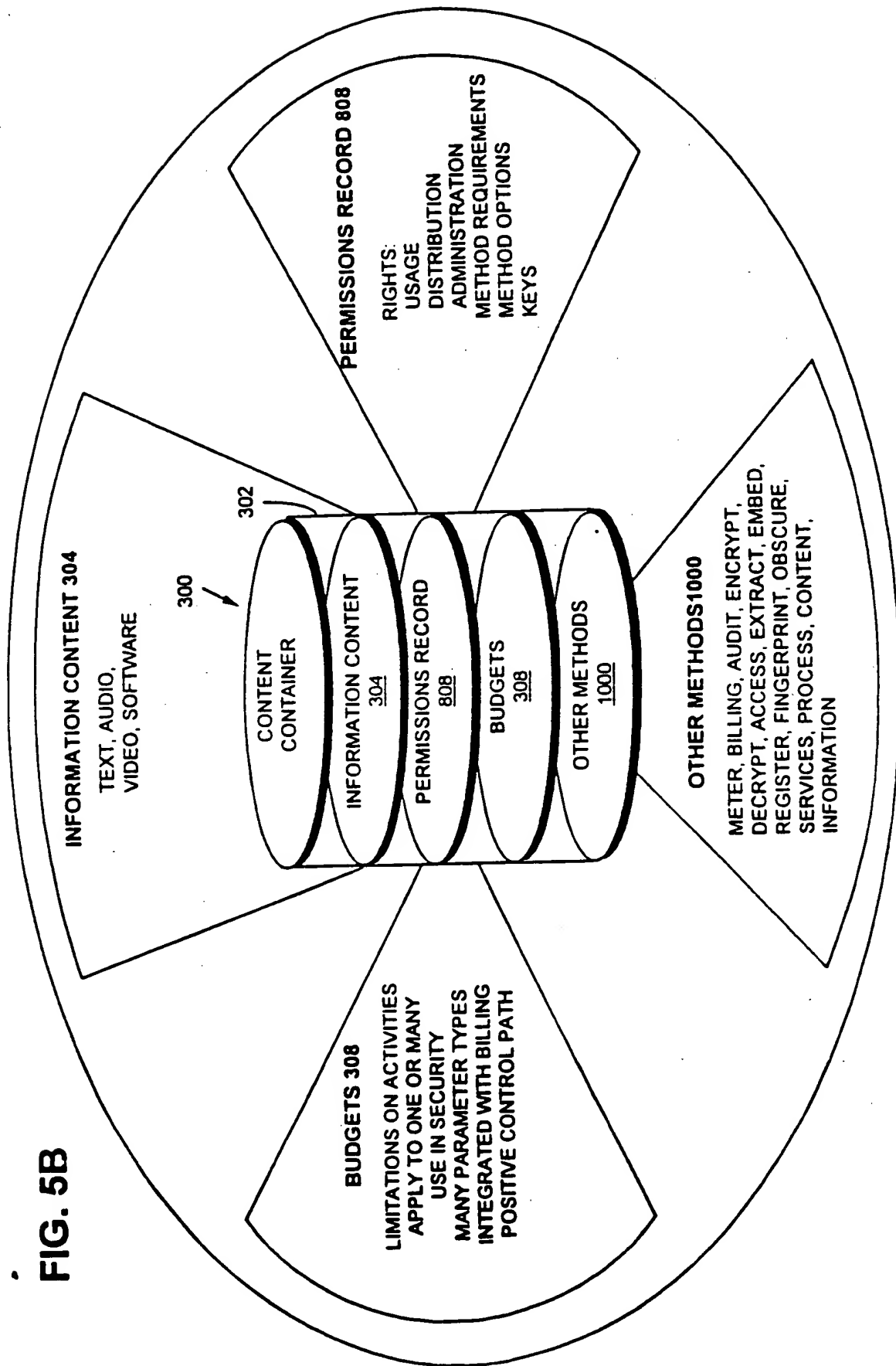
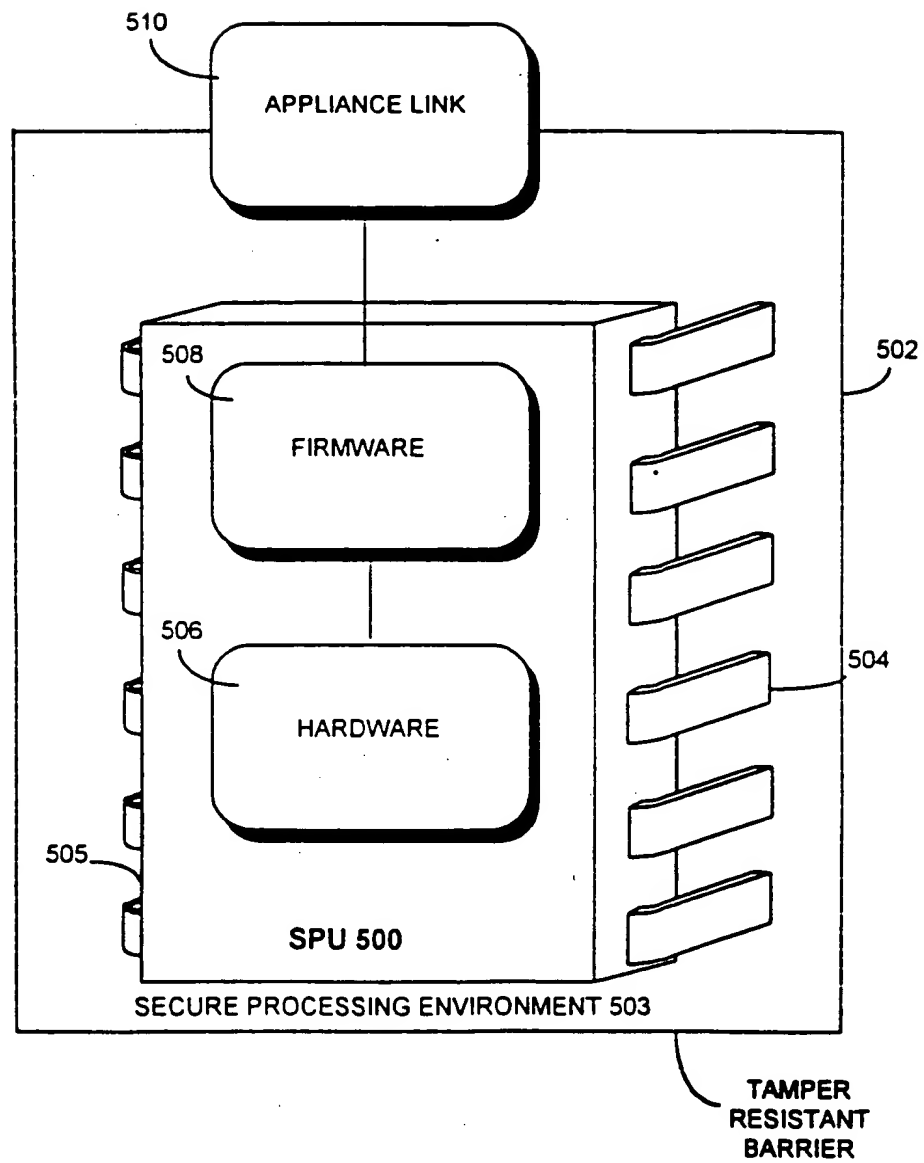
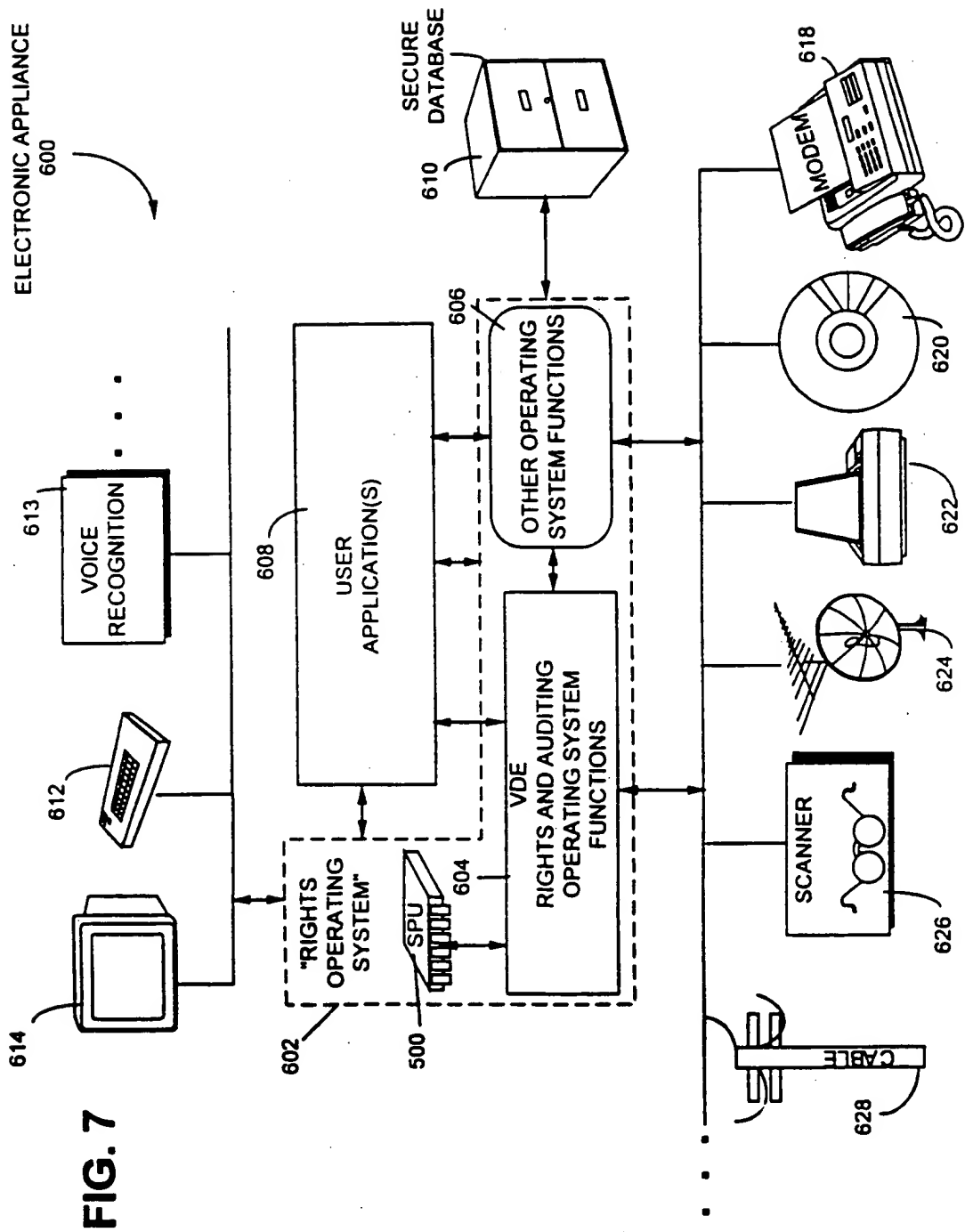


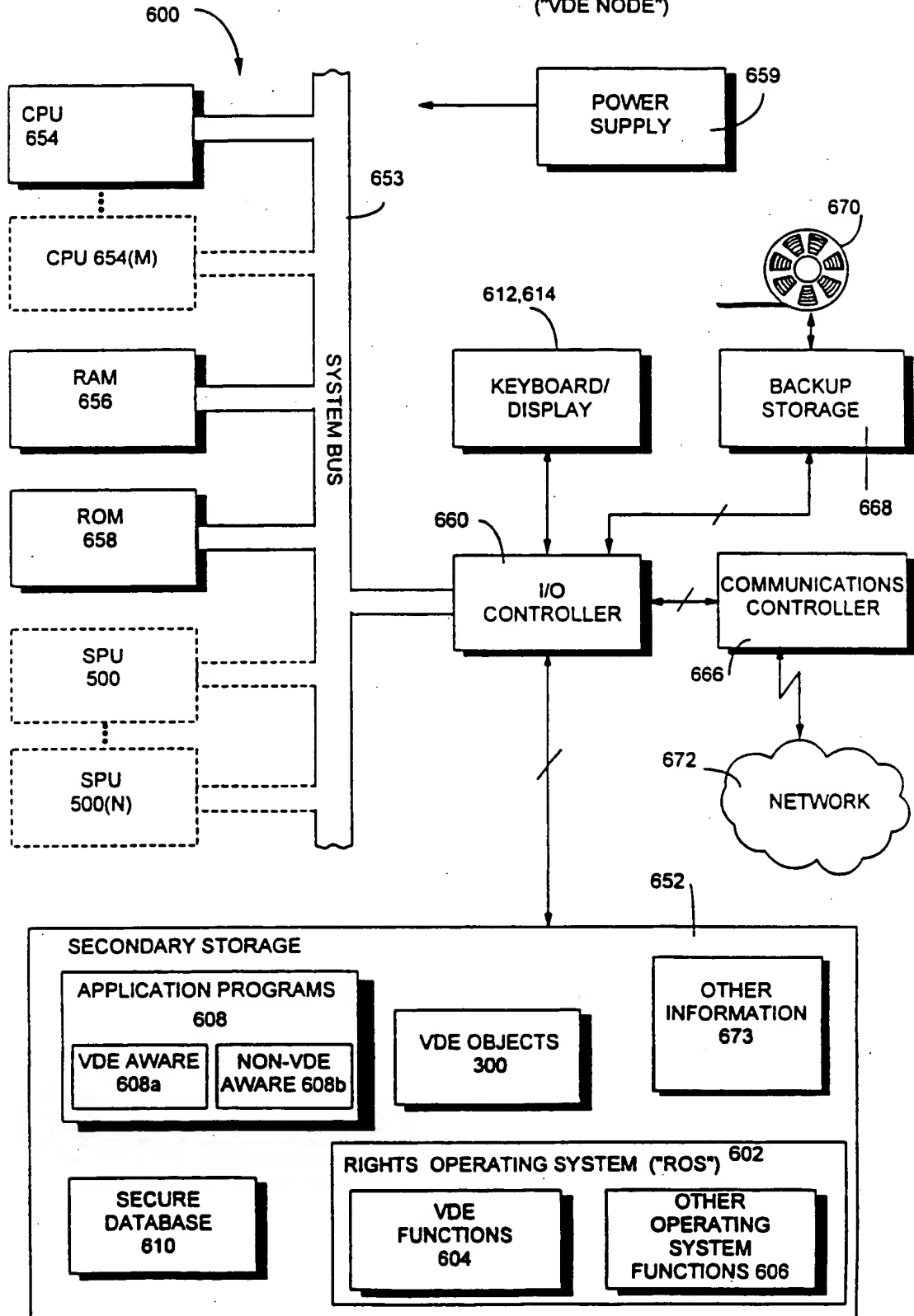


FIG. 6





**FIG. 8** ELECTRONIC APPLIANCE 600 ("VDE NODE")



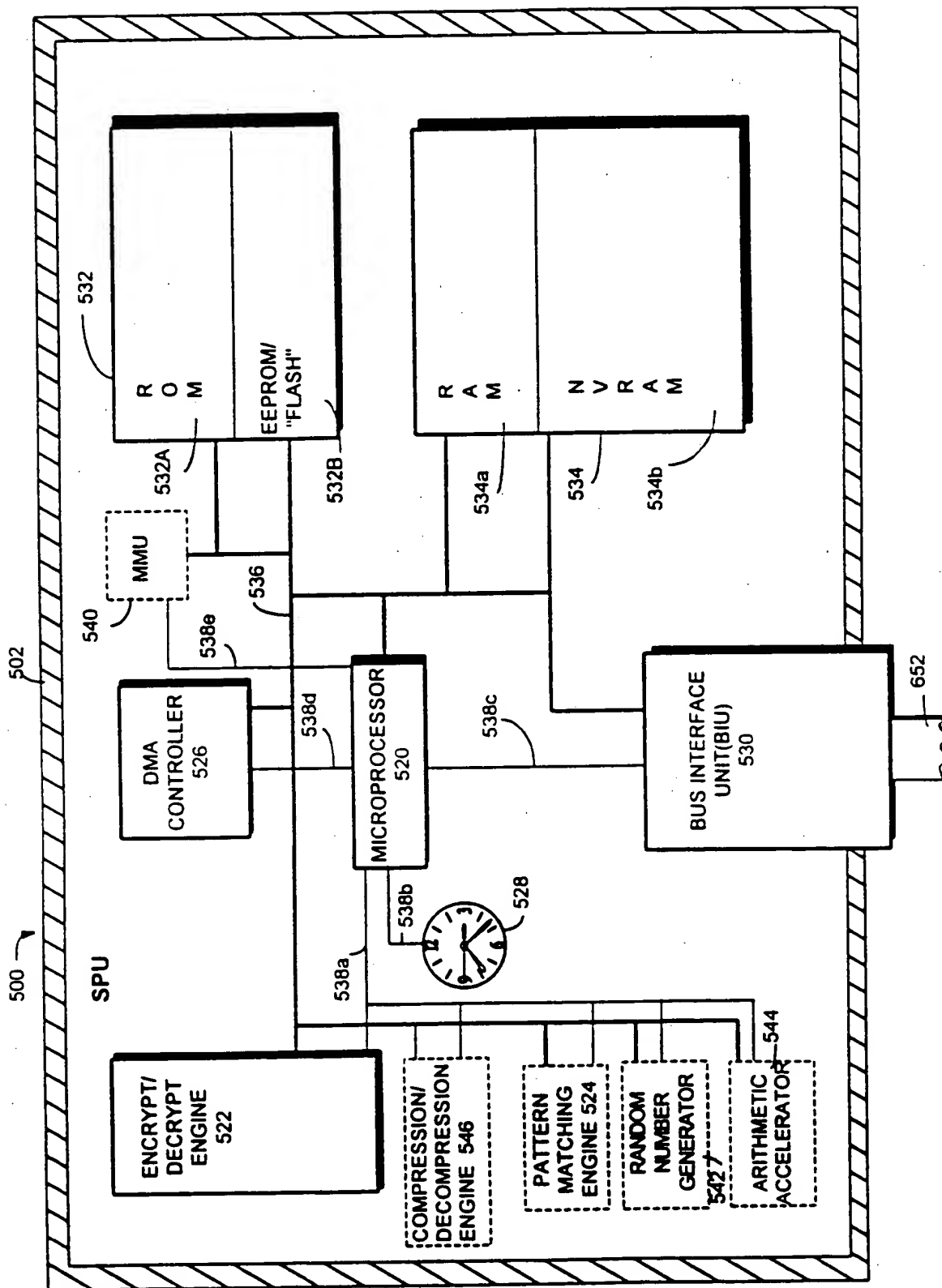


FIG. 9

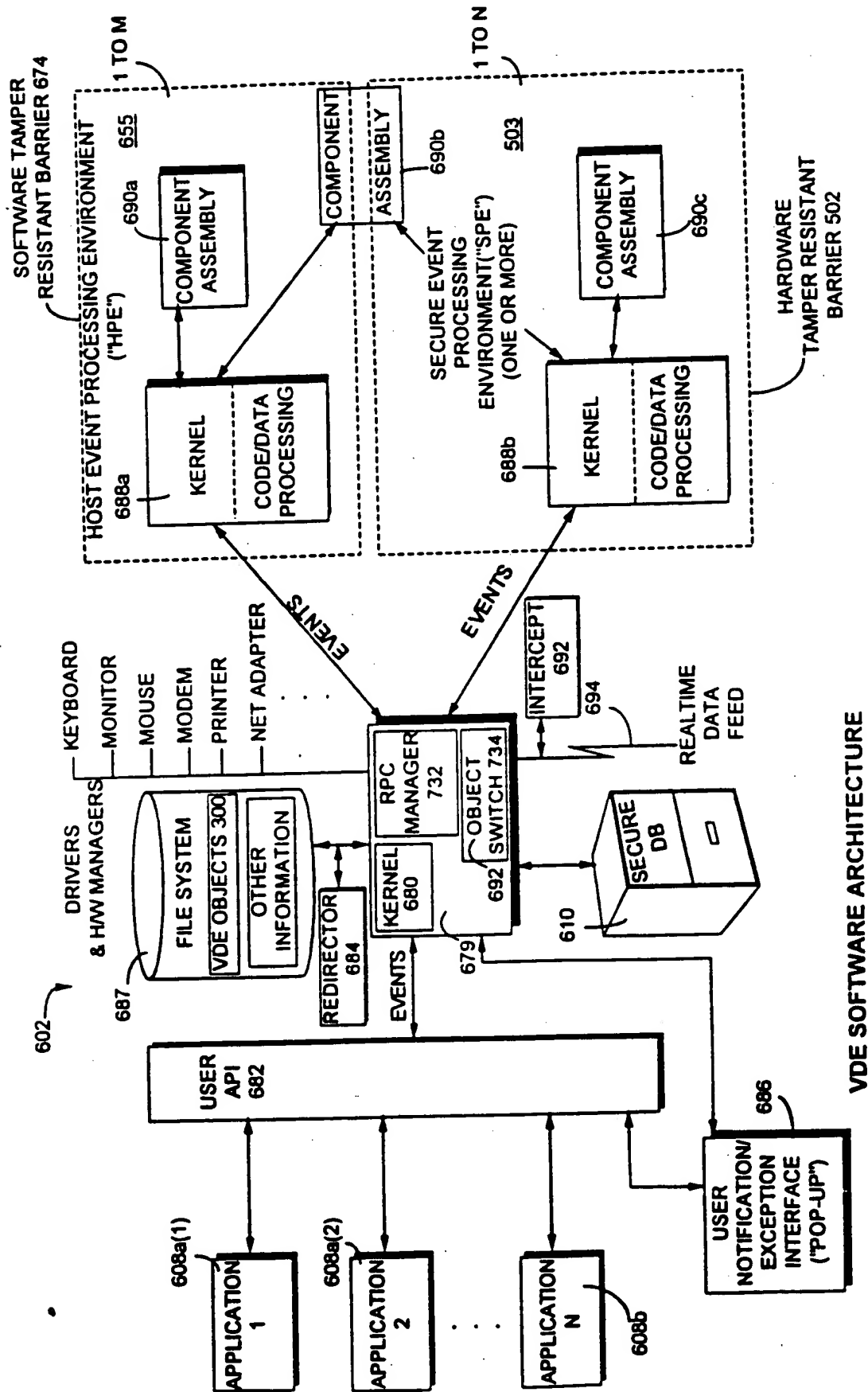


FIG. 10

FIG. 11C

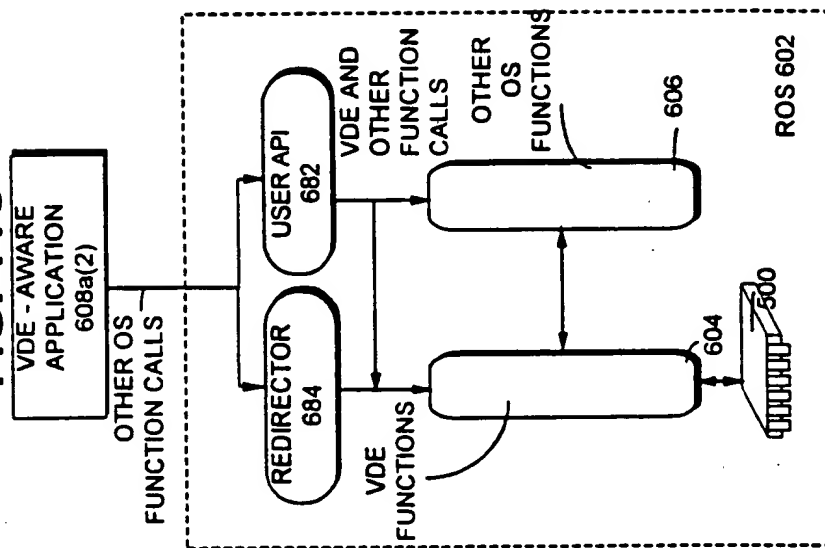


FIG. 11B

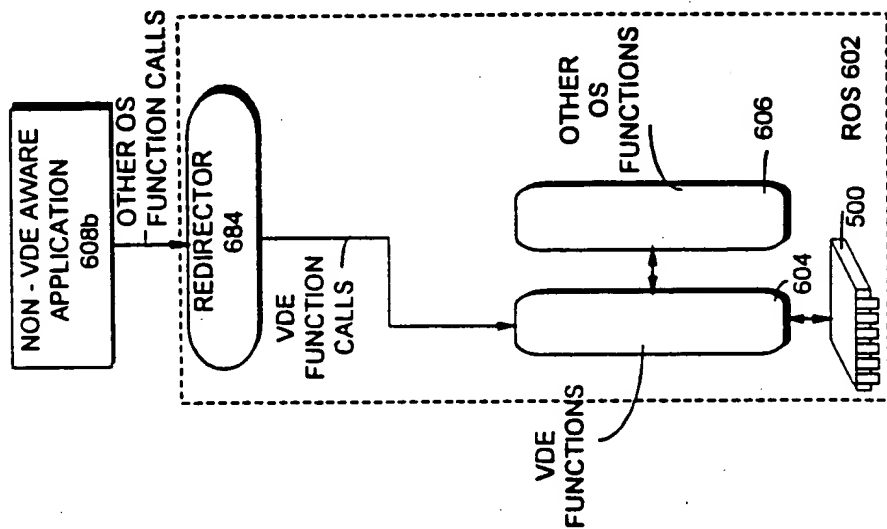


FIG. 11A

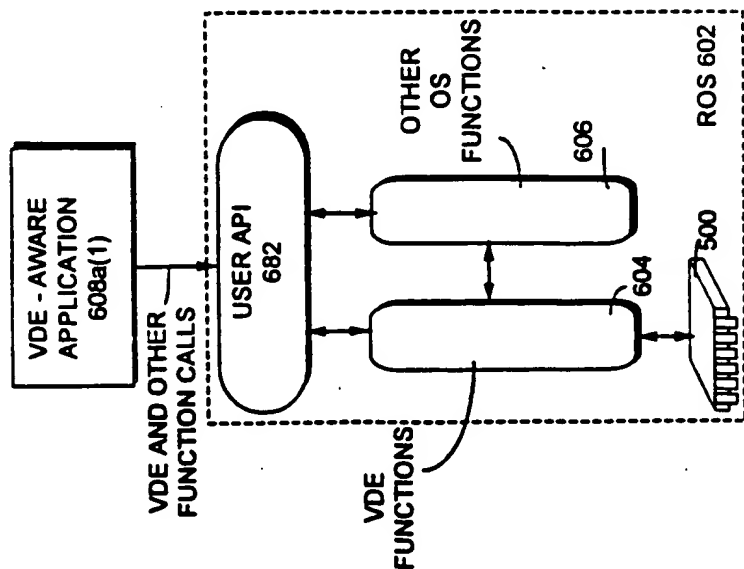


FIG. 11D

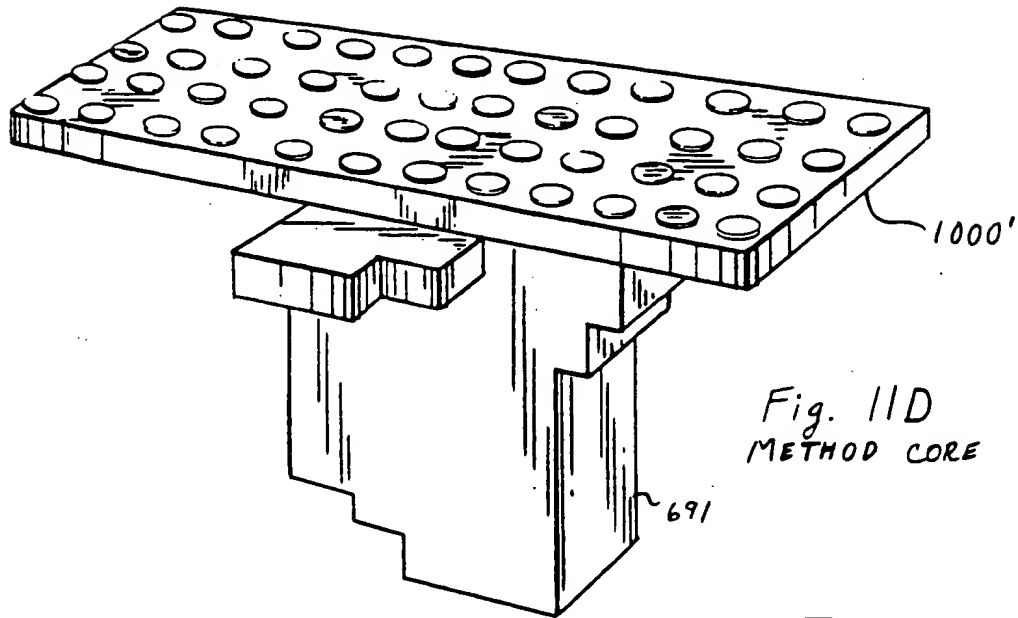


Fig. 11D  
METHOD CORE

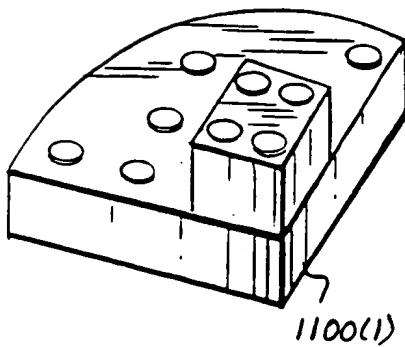


Fig. 11E  
LOAD MODULE  
WITH DTD

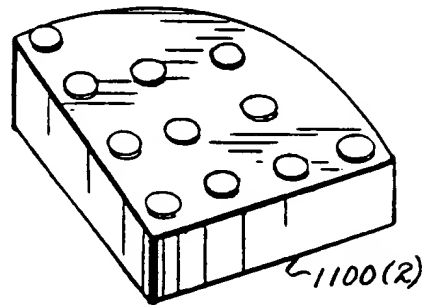


Fig. 11F  
LOAD MODULE

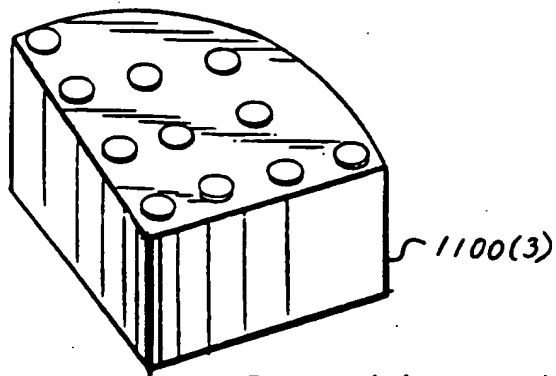


Fig. 11G LOAD MODULE

— 100 —



Fig. 11I

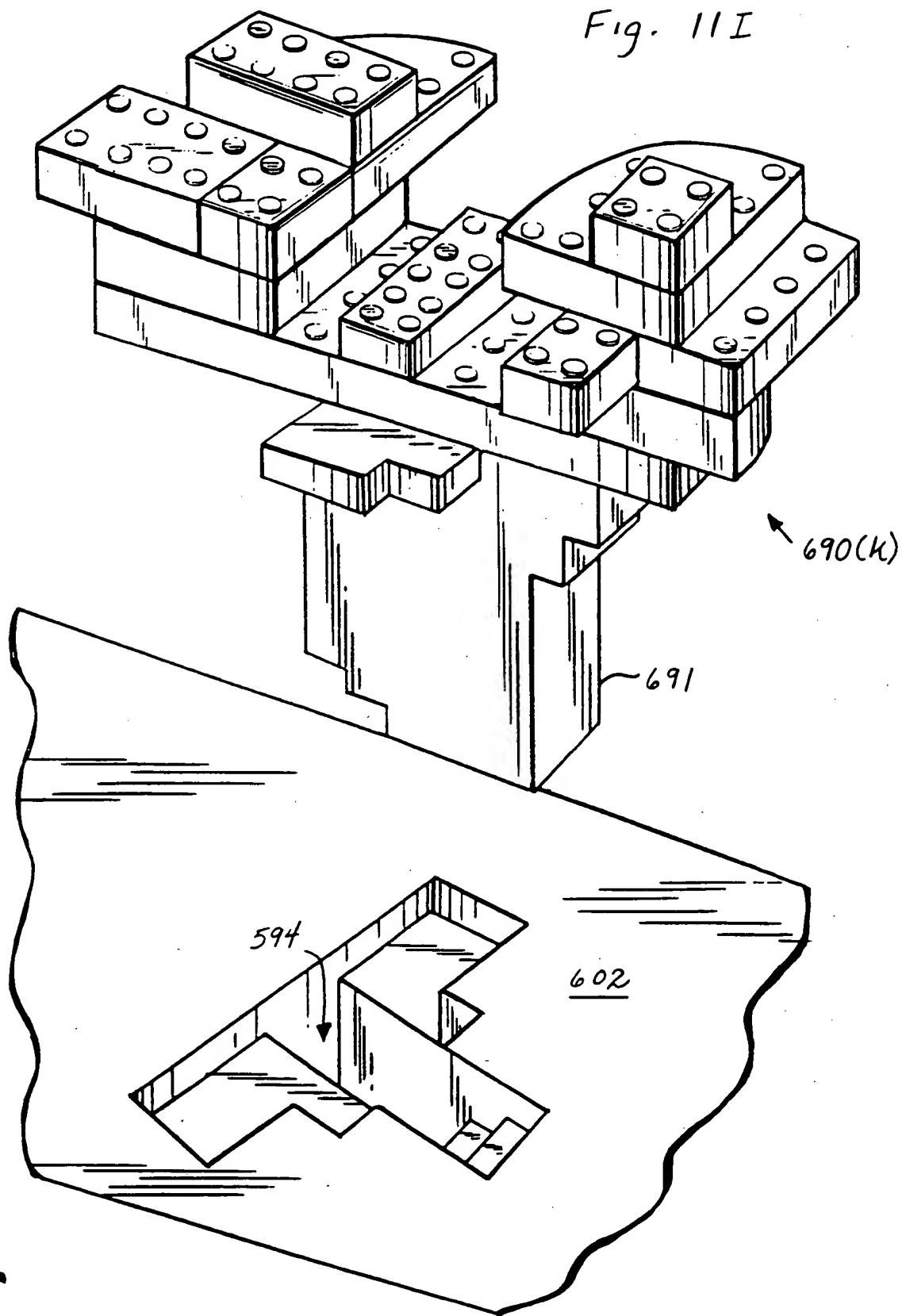


FIG. 10

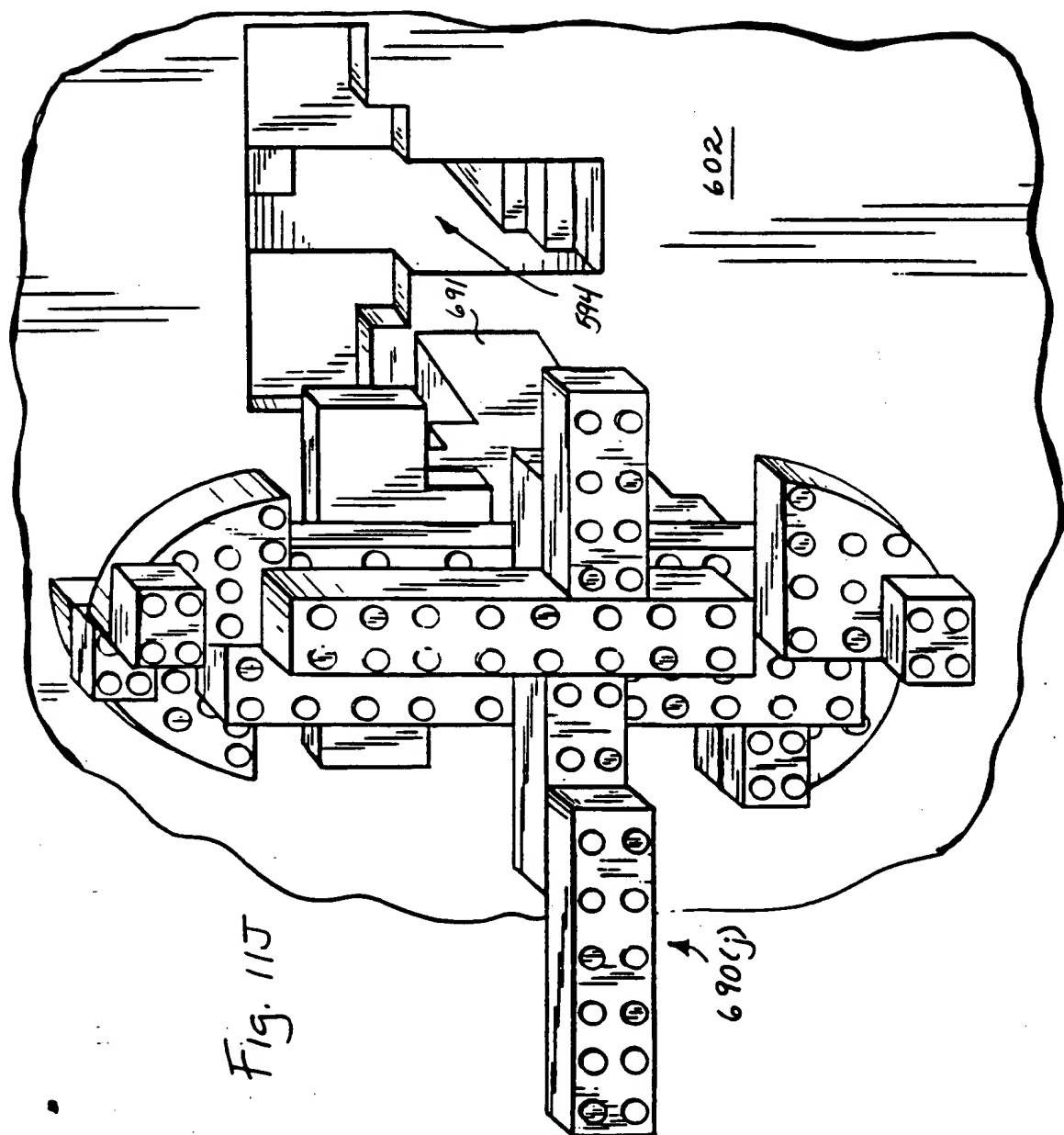


Fig. 11J

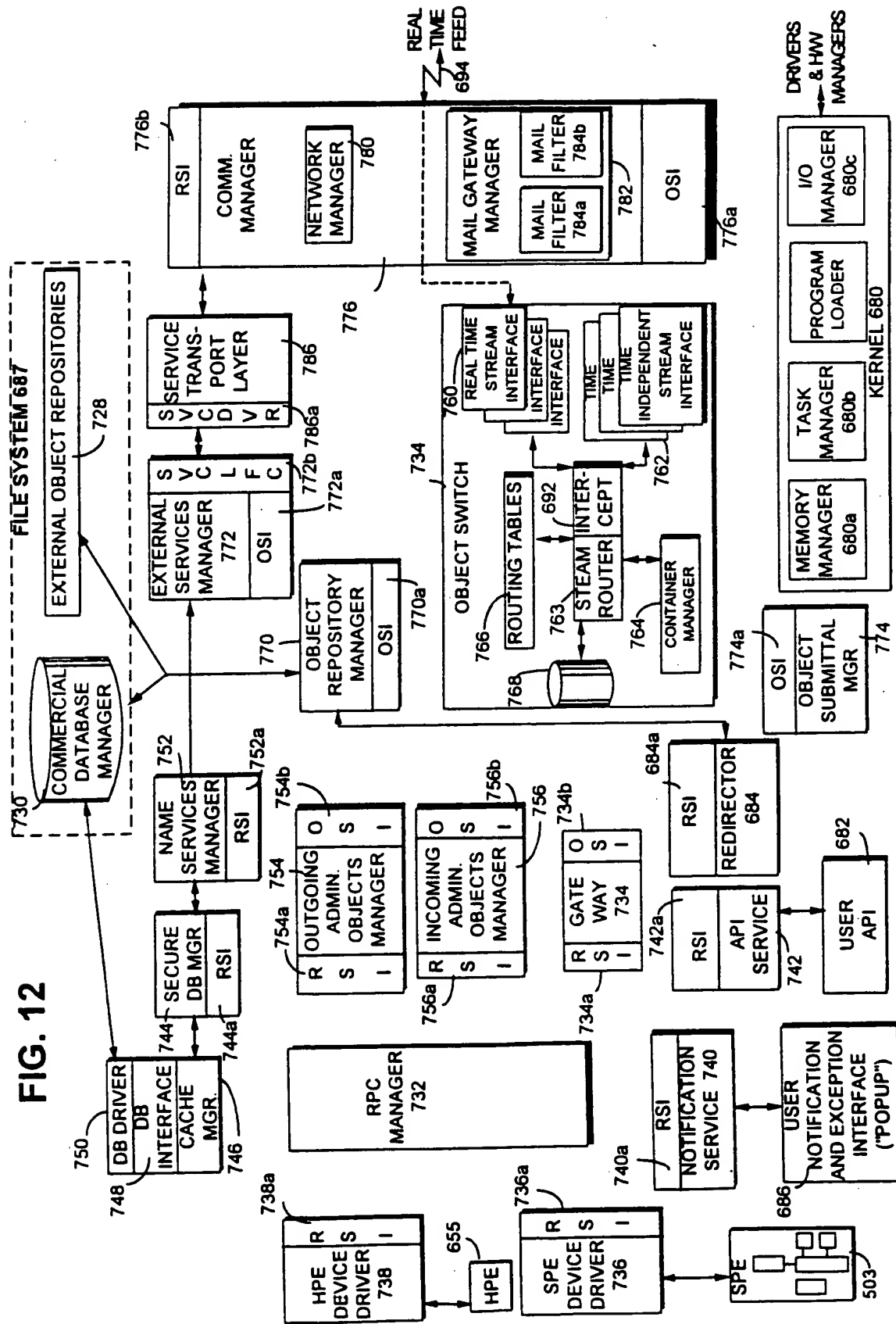
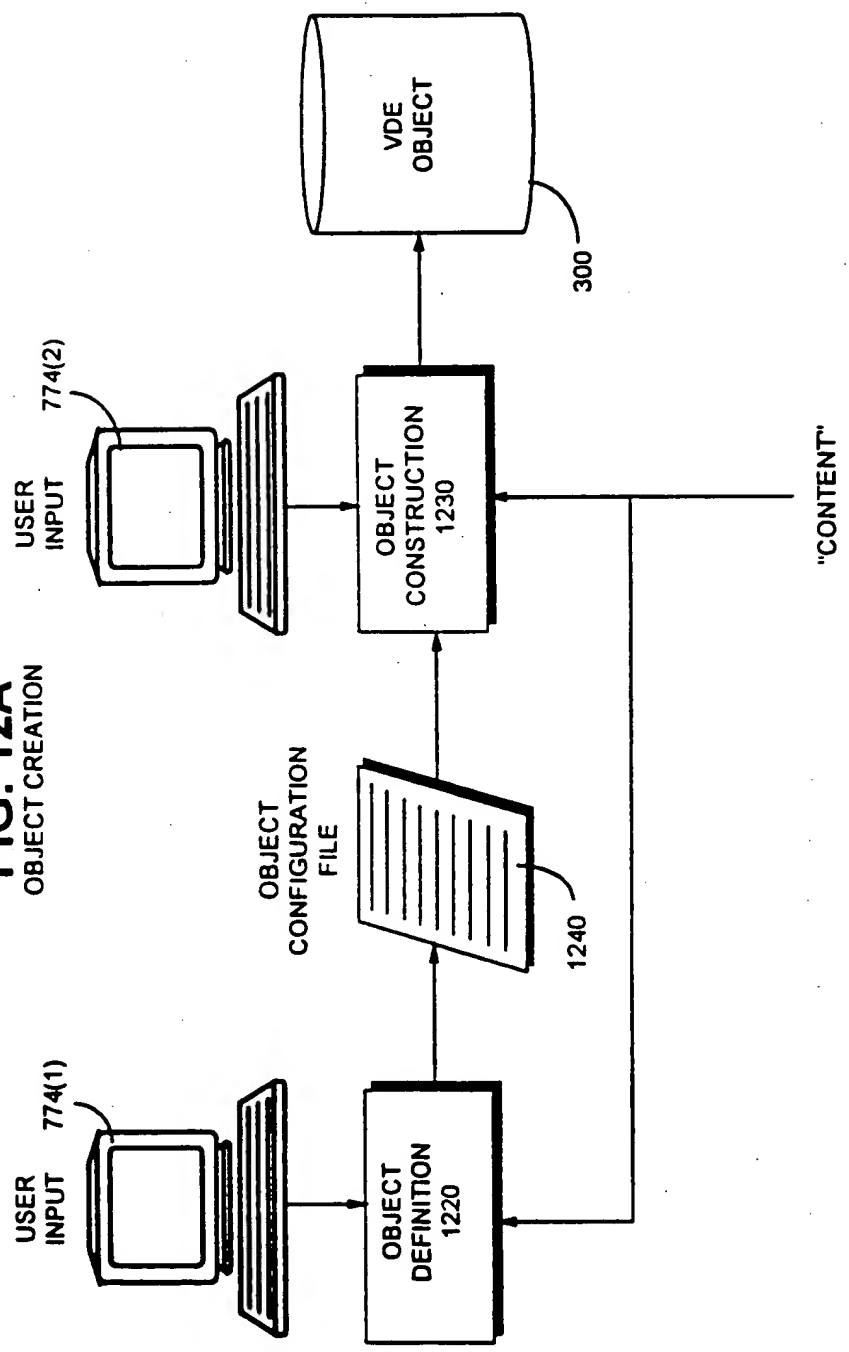
[illegible]

FIG. 12A

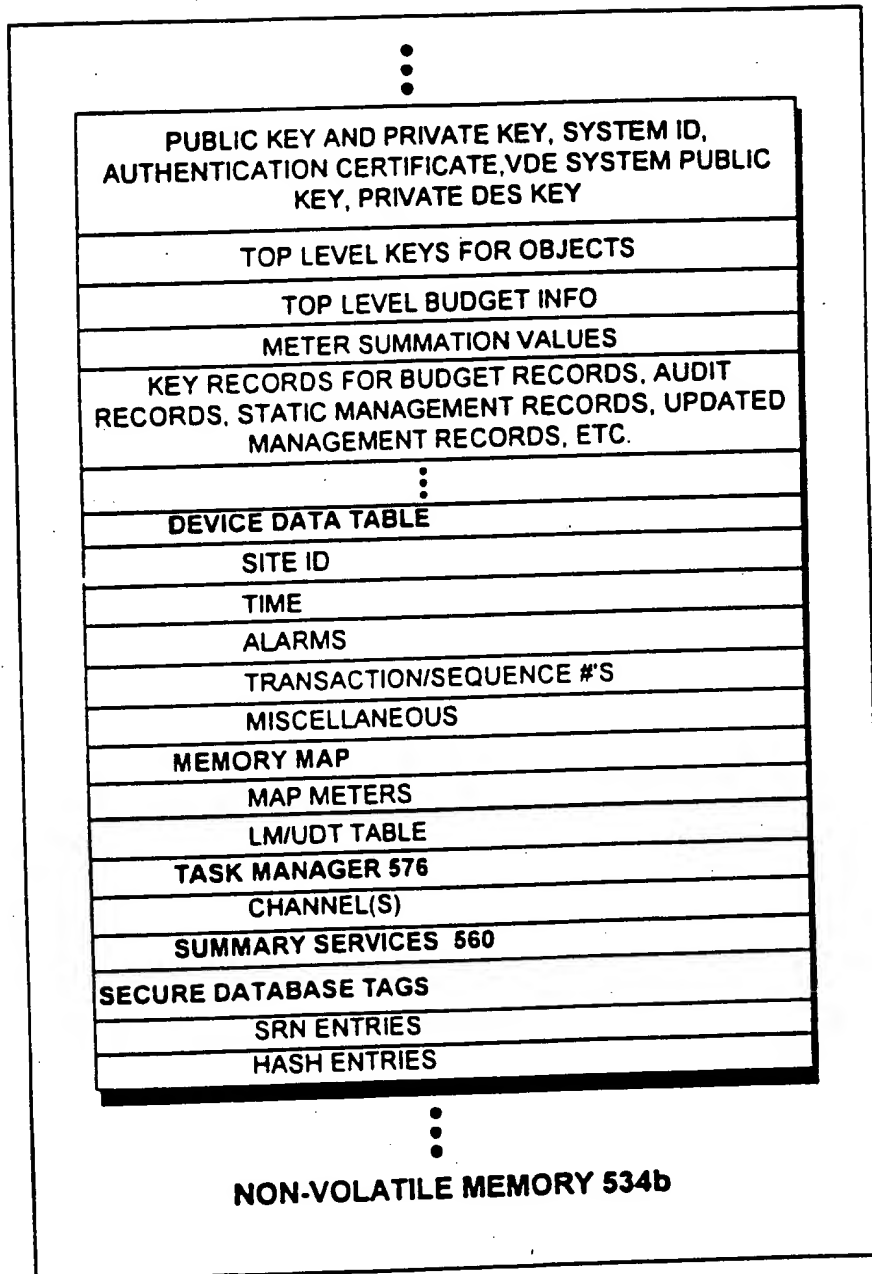
**FIG. 12A**  
OBJECT CREATION







**FIG. 14B**



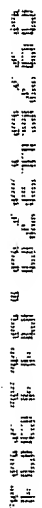






FIG. 15A

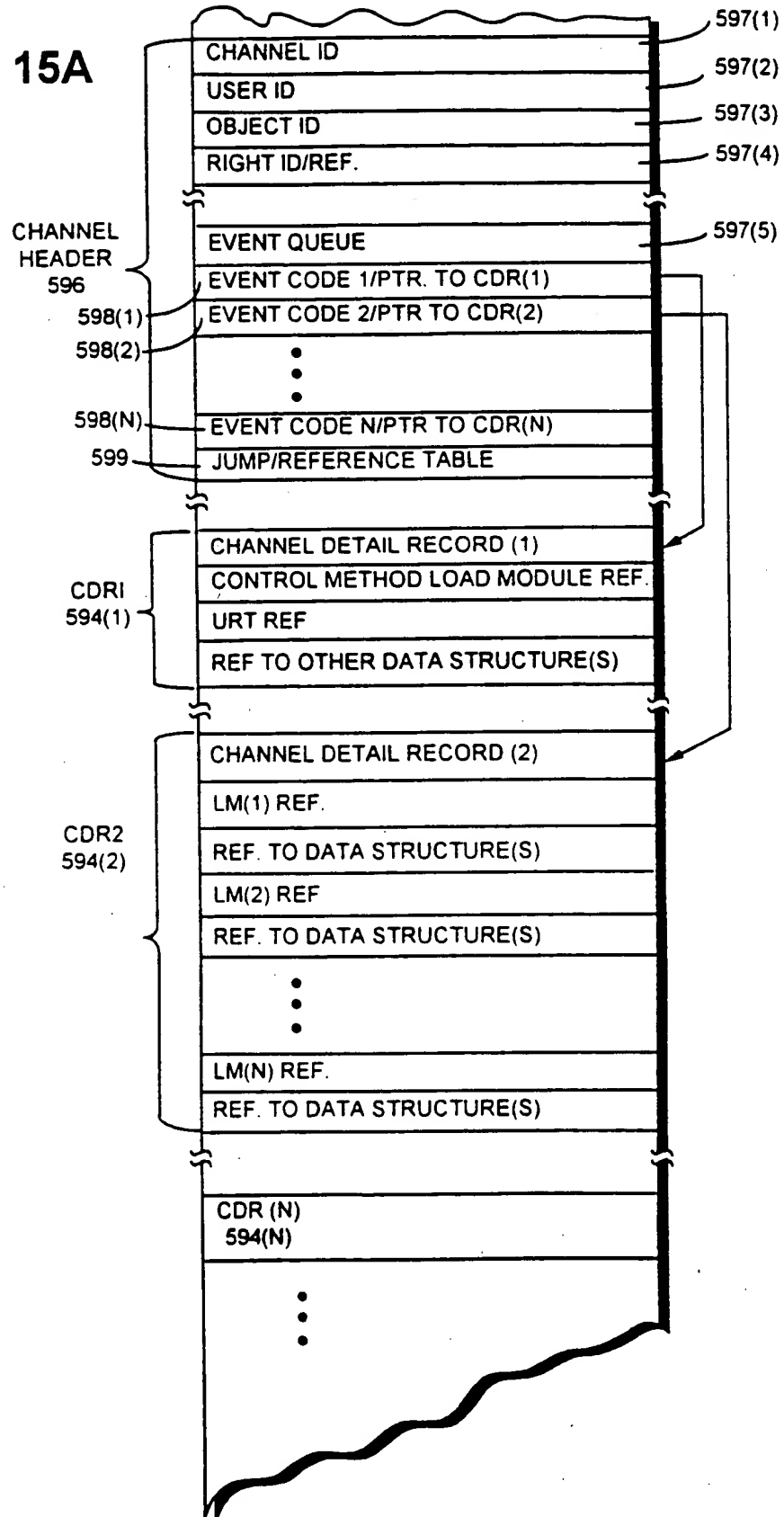


FIG. 15B

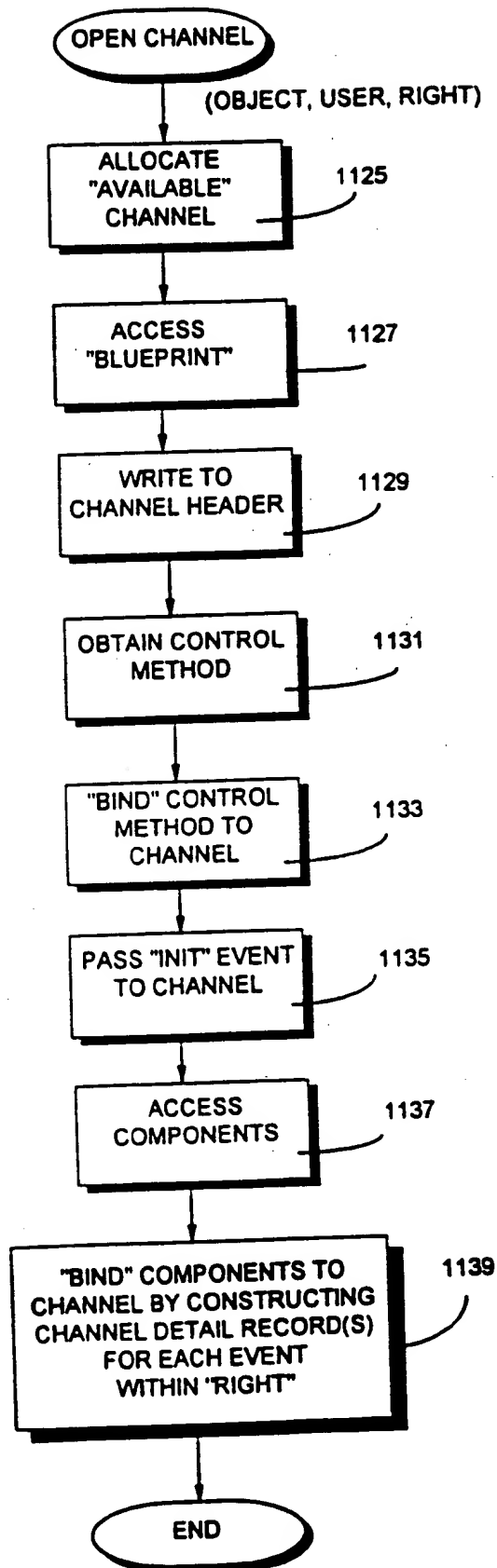


FIG. 16

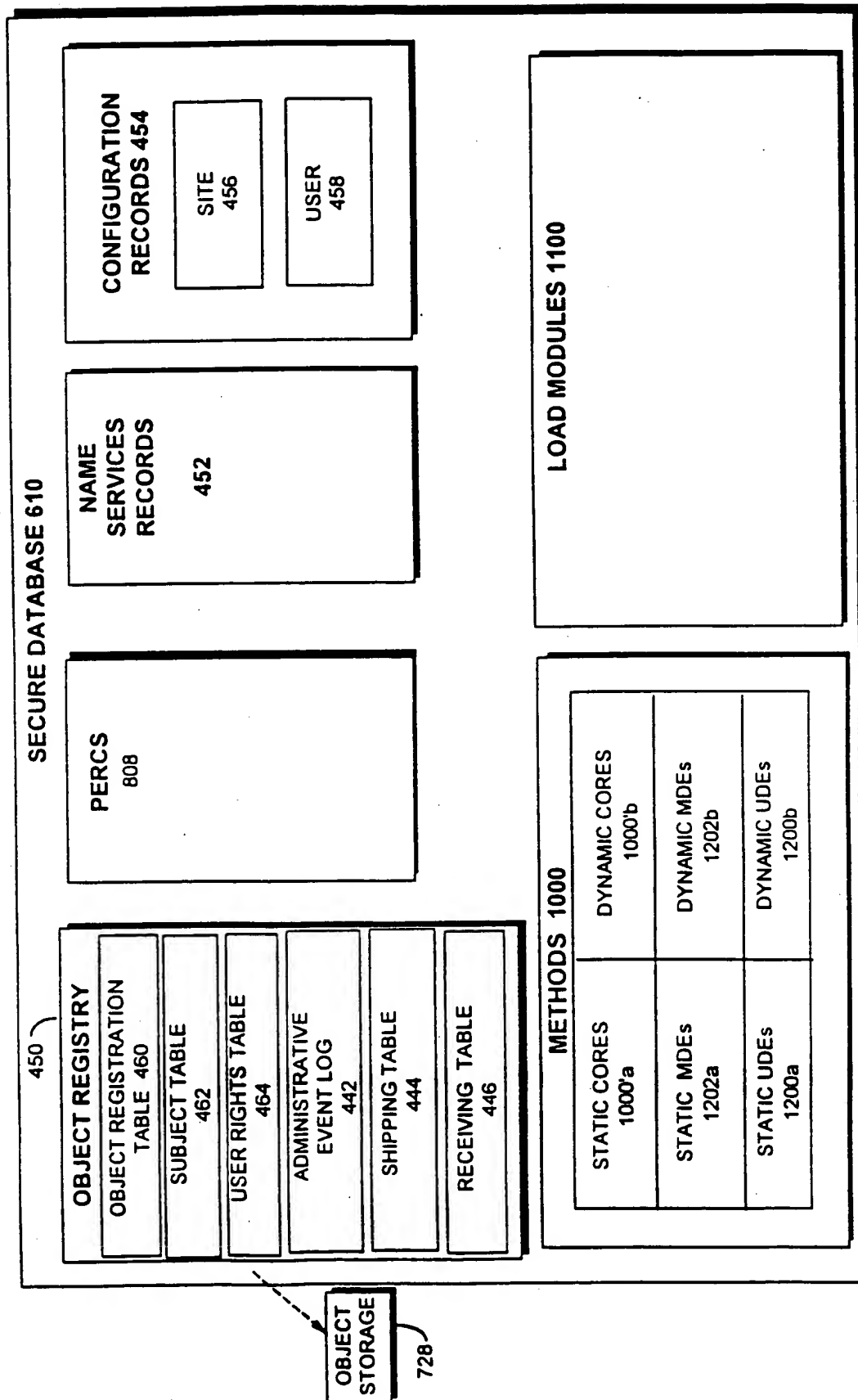
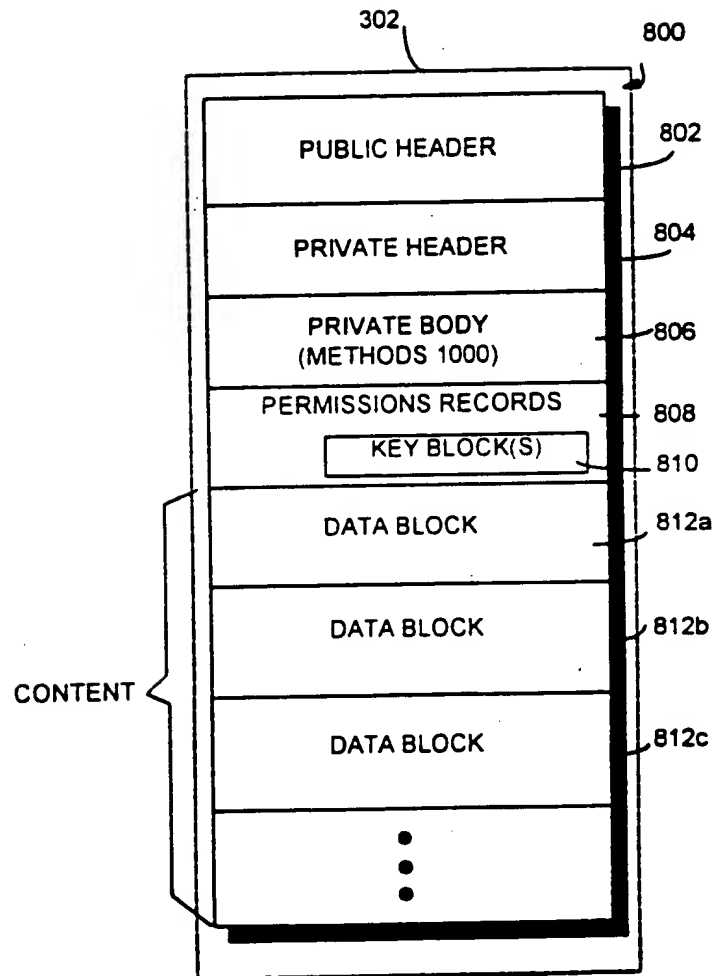


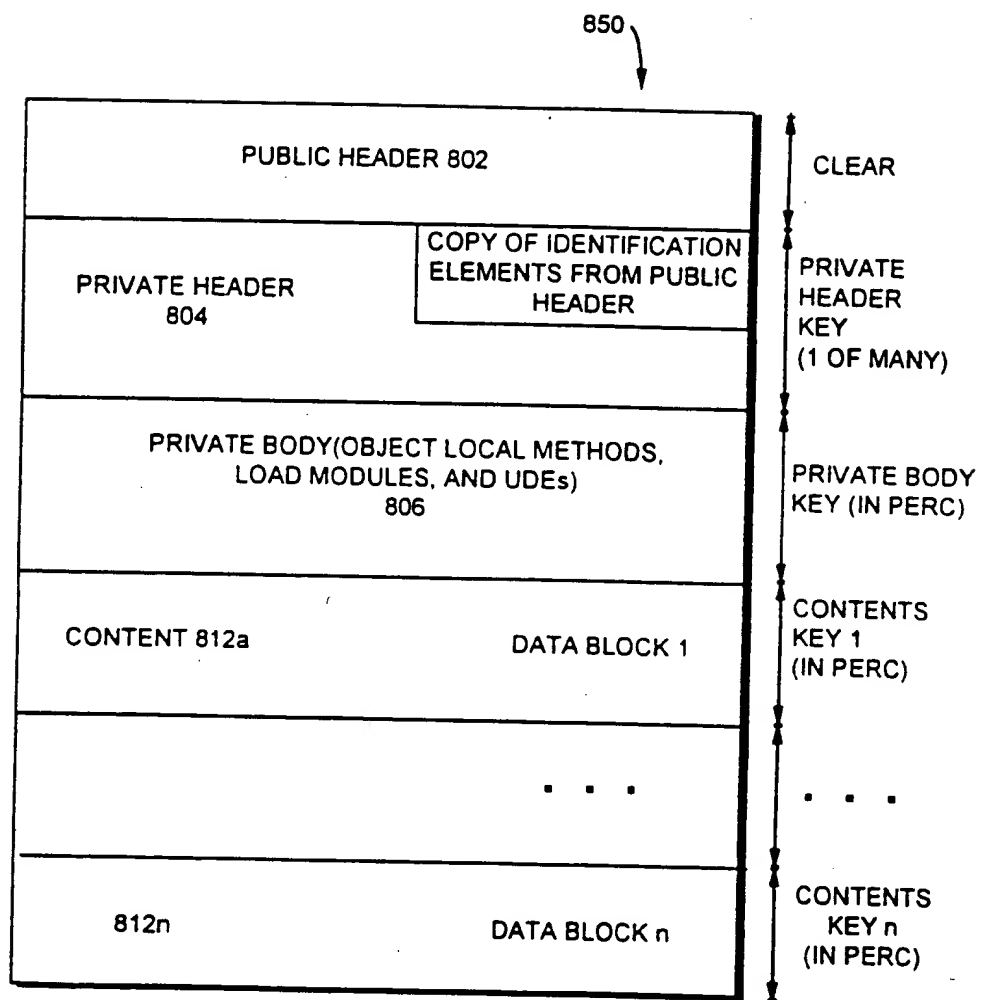
FIG. 17



LOGICAL OBJECT

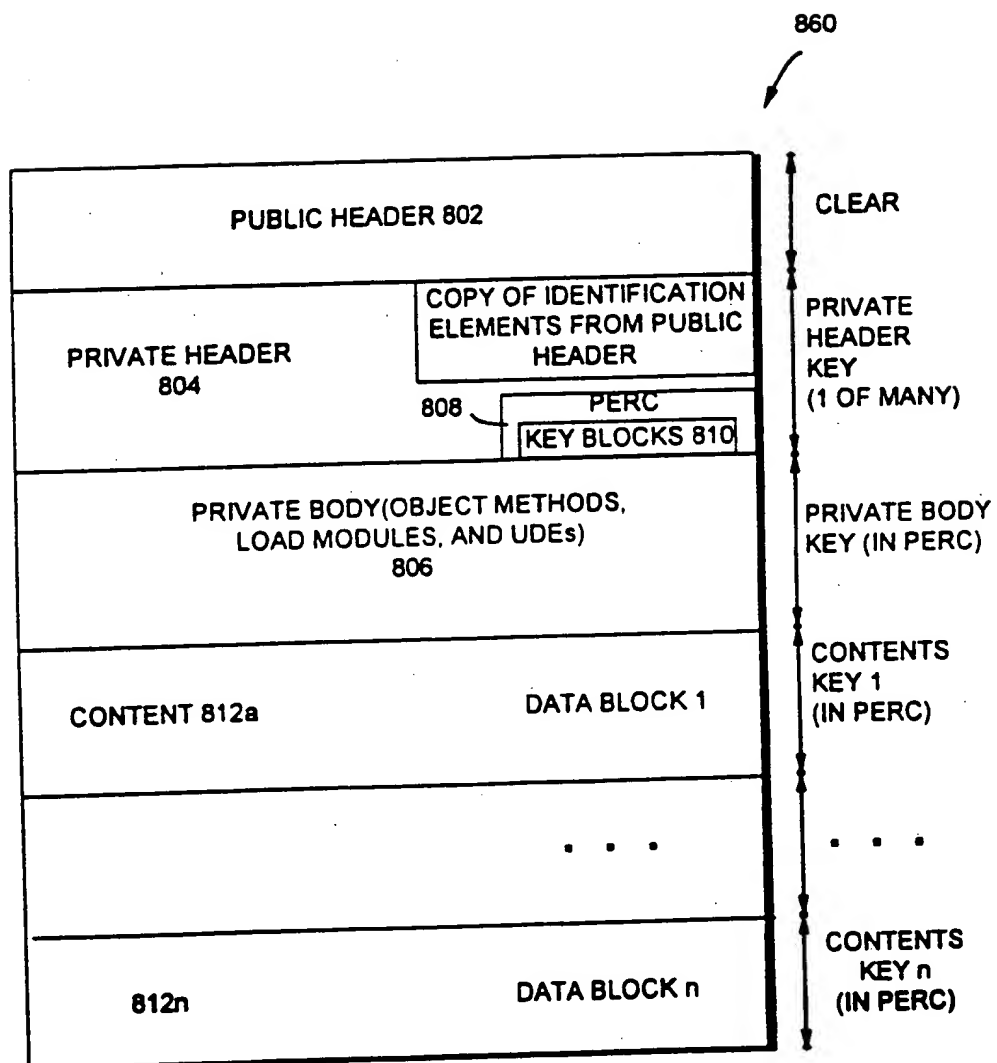
FIG. 17

FIG. 18



STATIONARY OBJECT

FIG. 18



TRAVELING OBJECT

FIG. 19

880

PUBLIC HEADER 802

PRIVATE HEADER 804

COPY OF IDENTIFICATION ELEMENTS FROM PUBLIC HEADER

PRIVATE BODY(OBJECT LOCAL METHODS, LOAD MODULES, AND UDEs) 806

CONTENT 812a

DATA BLOCK 1

CONTENT CONTAINER

ADMINISTRATIVE OBJECT

EMBEDDED CONTENT OBJECT

300

812b

870

812n

DATA BLOCK n

CLEAR

PRIVATE HEADER KEY (1 OF MANY)

PRIVATE BODY KEY (IN PERC)

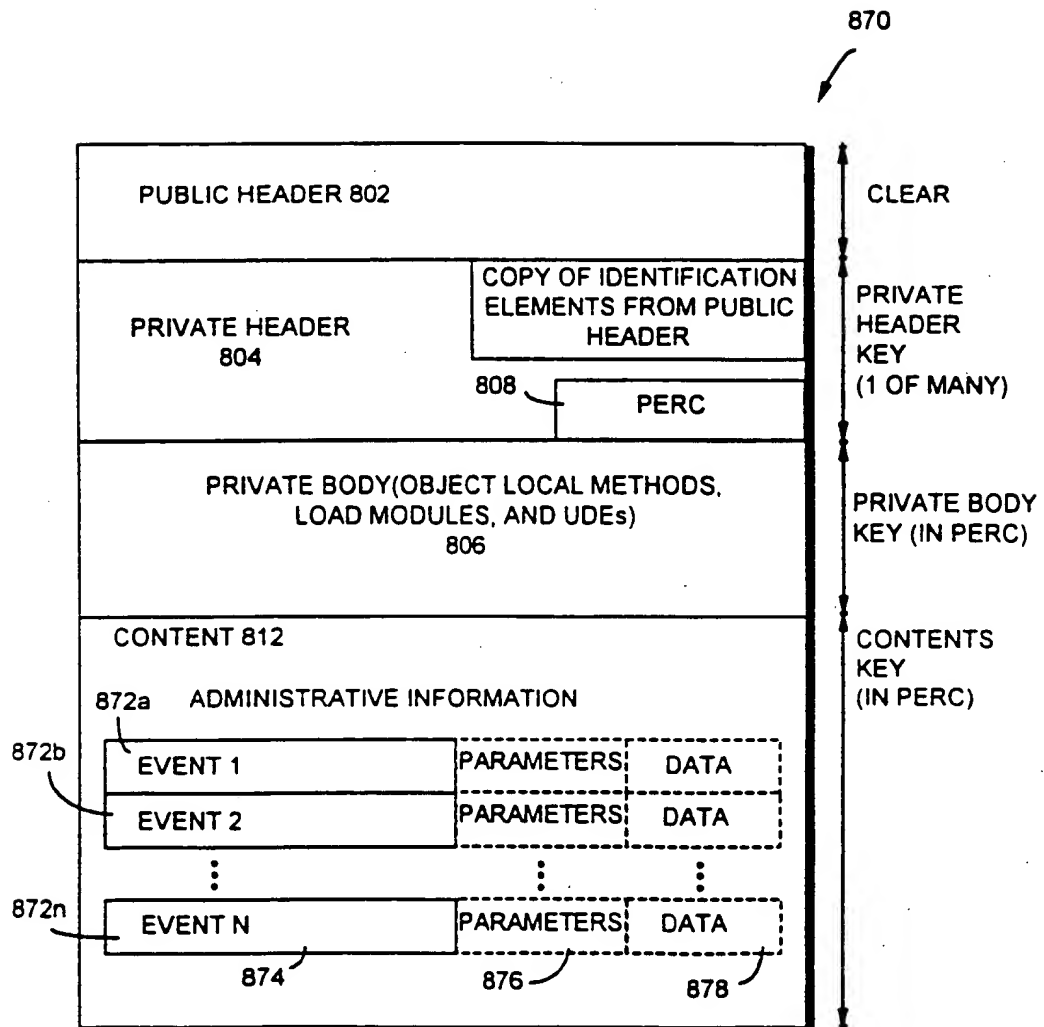
CONTENTS KEY 1 (IN PERC)

CONTENTS KEY n (IN PERC)

FIG. 20



FIG. 21



ADMINISTRATIVE OBJECT

FIG. 21

# FIG. 22

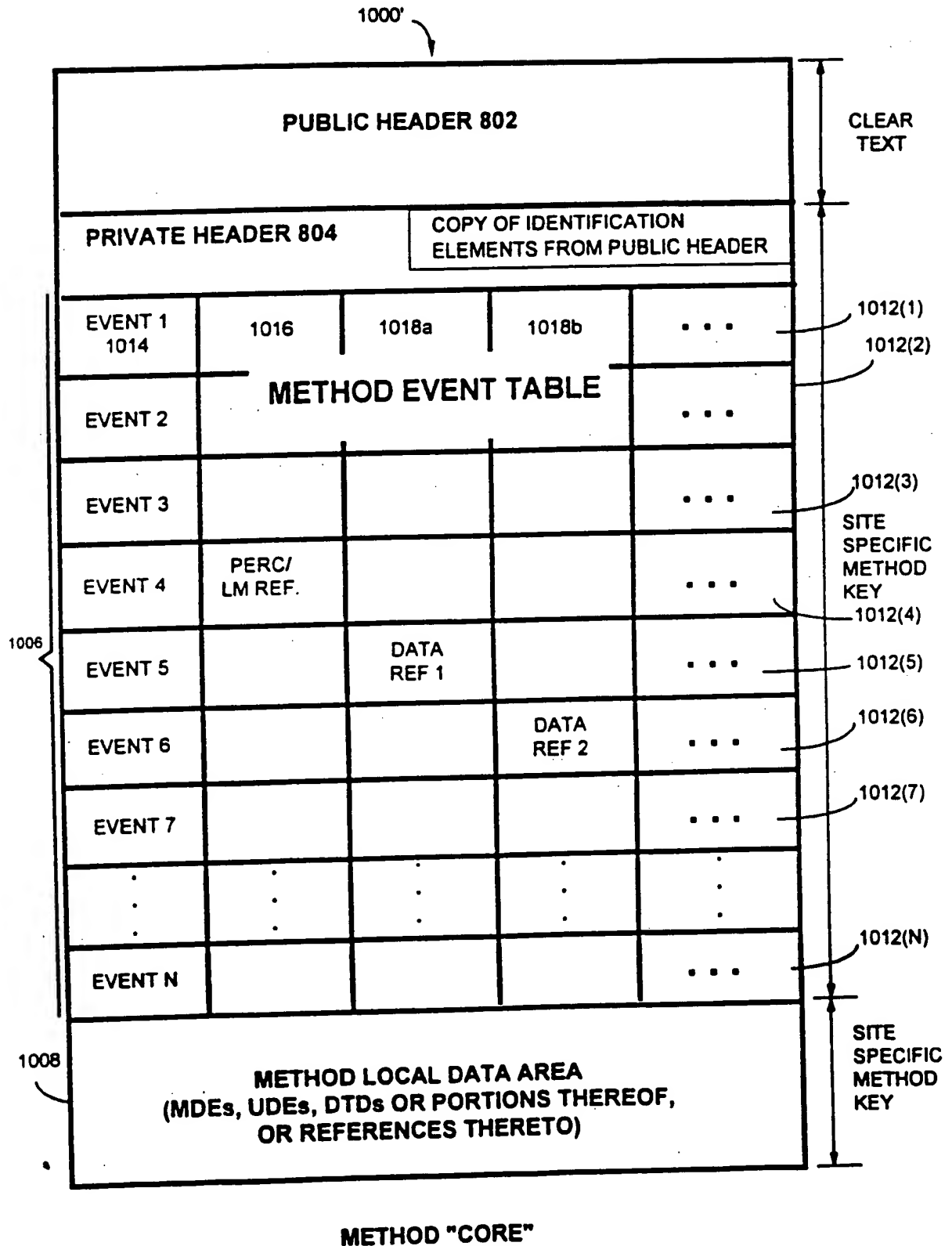
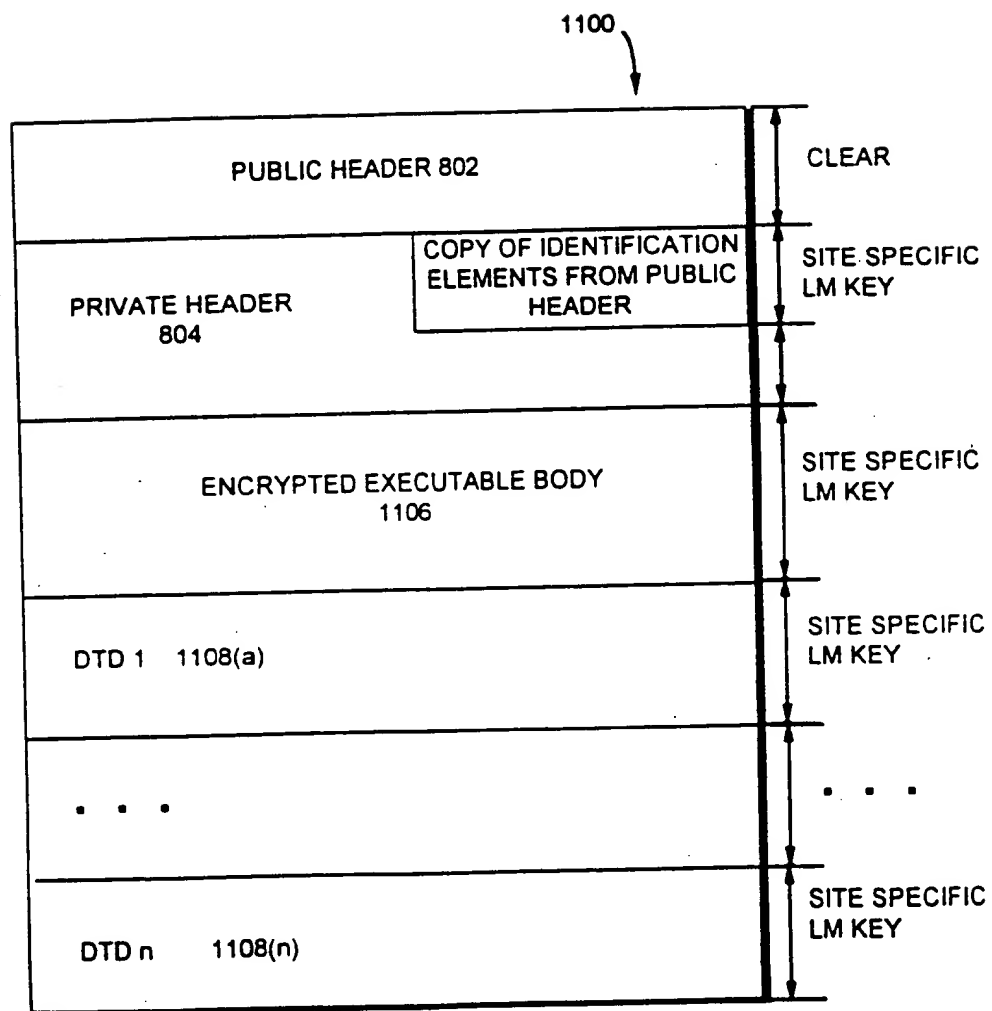
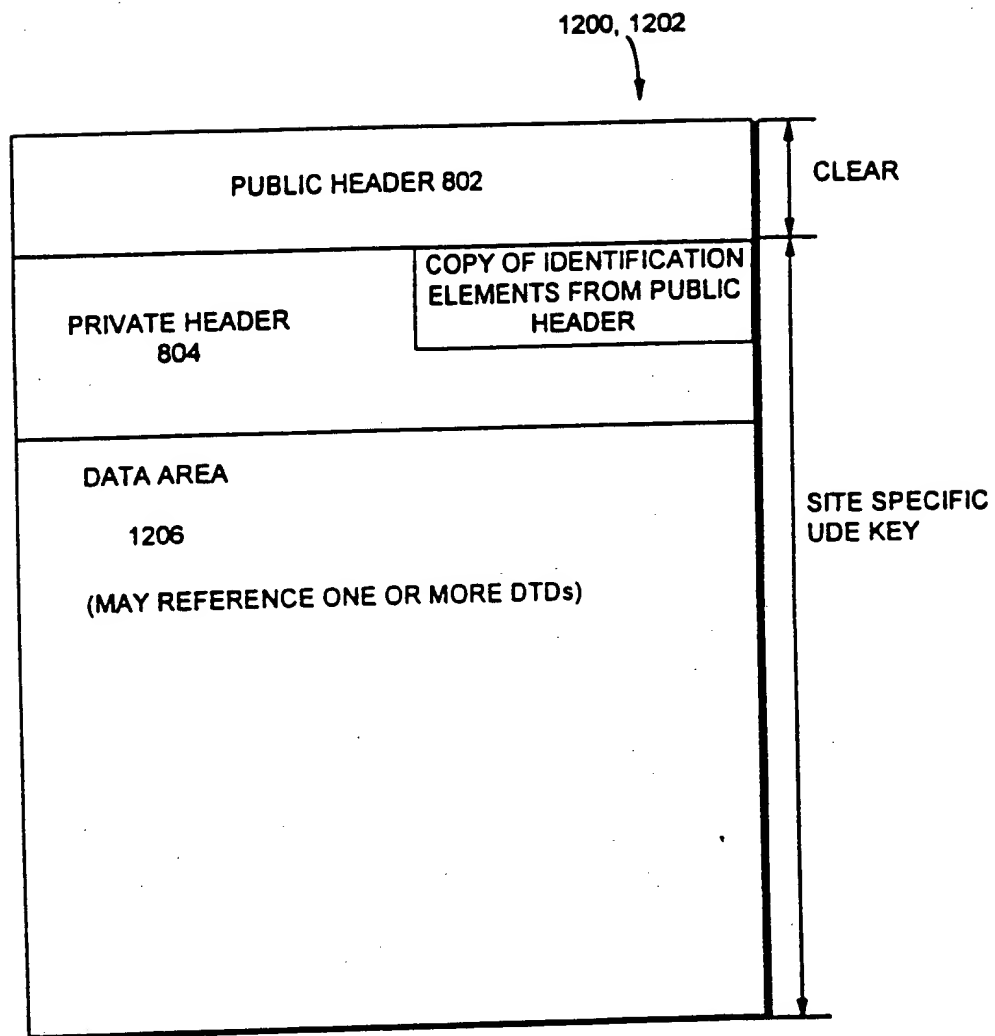


FIG. 23



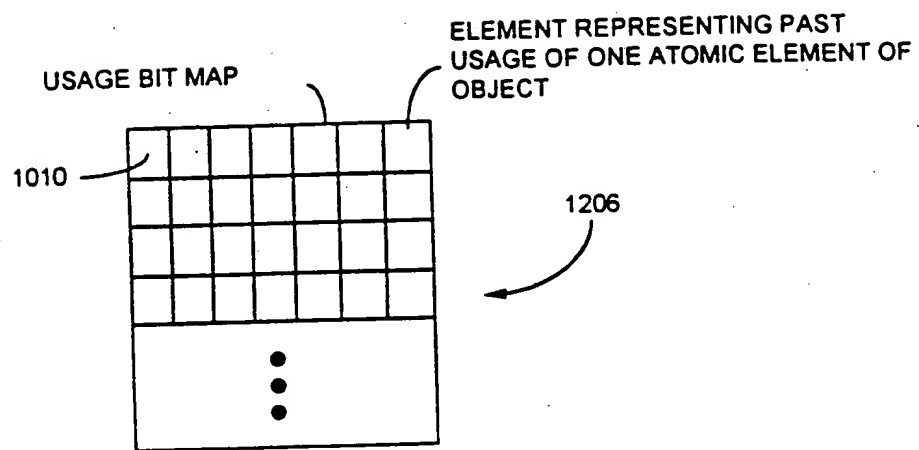
LOAD MODULE

FIG. 24



UDE (MDE)

# FIG. 25A



# FIG. 25B

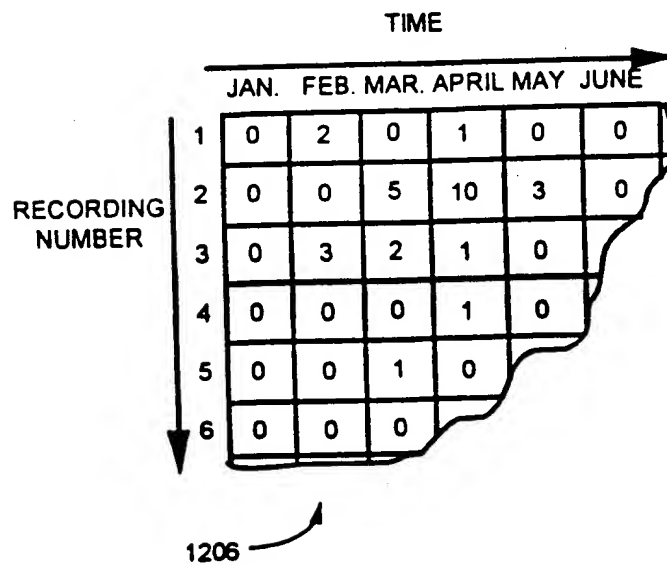


FIG. 25C

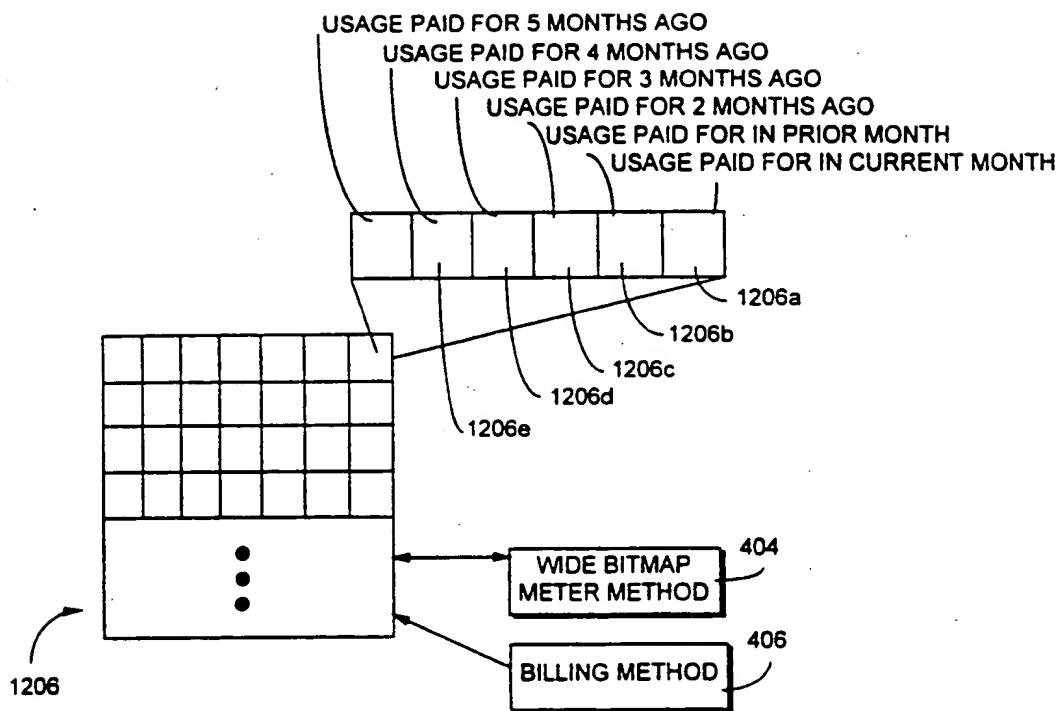
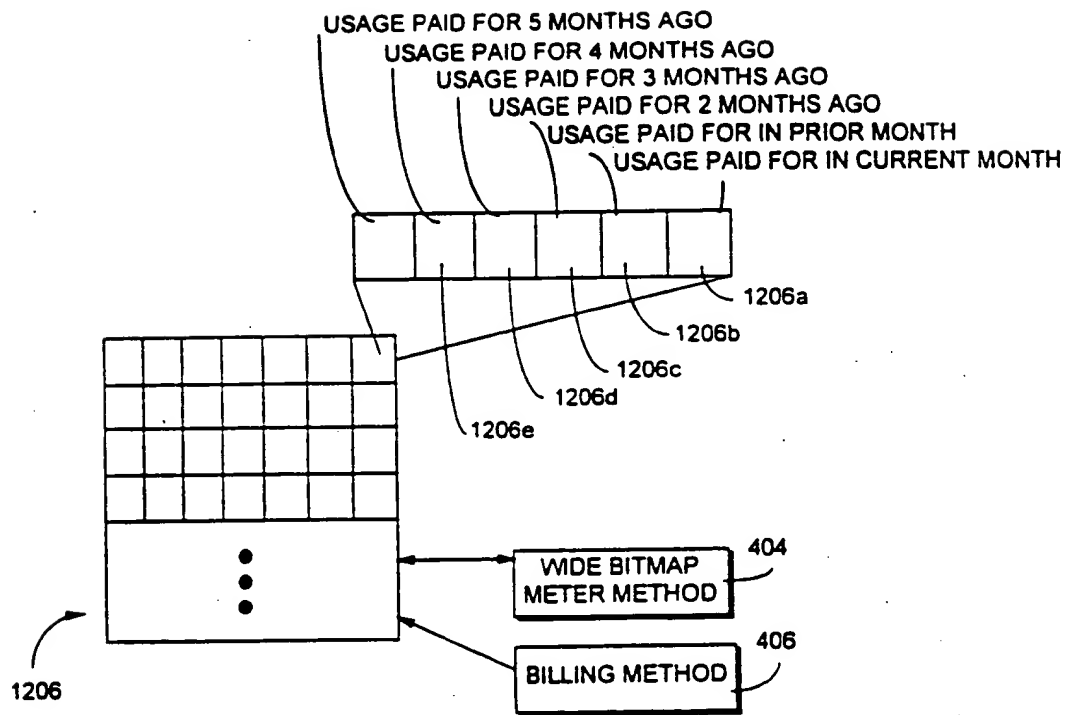
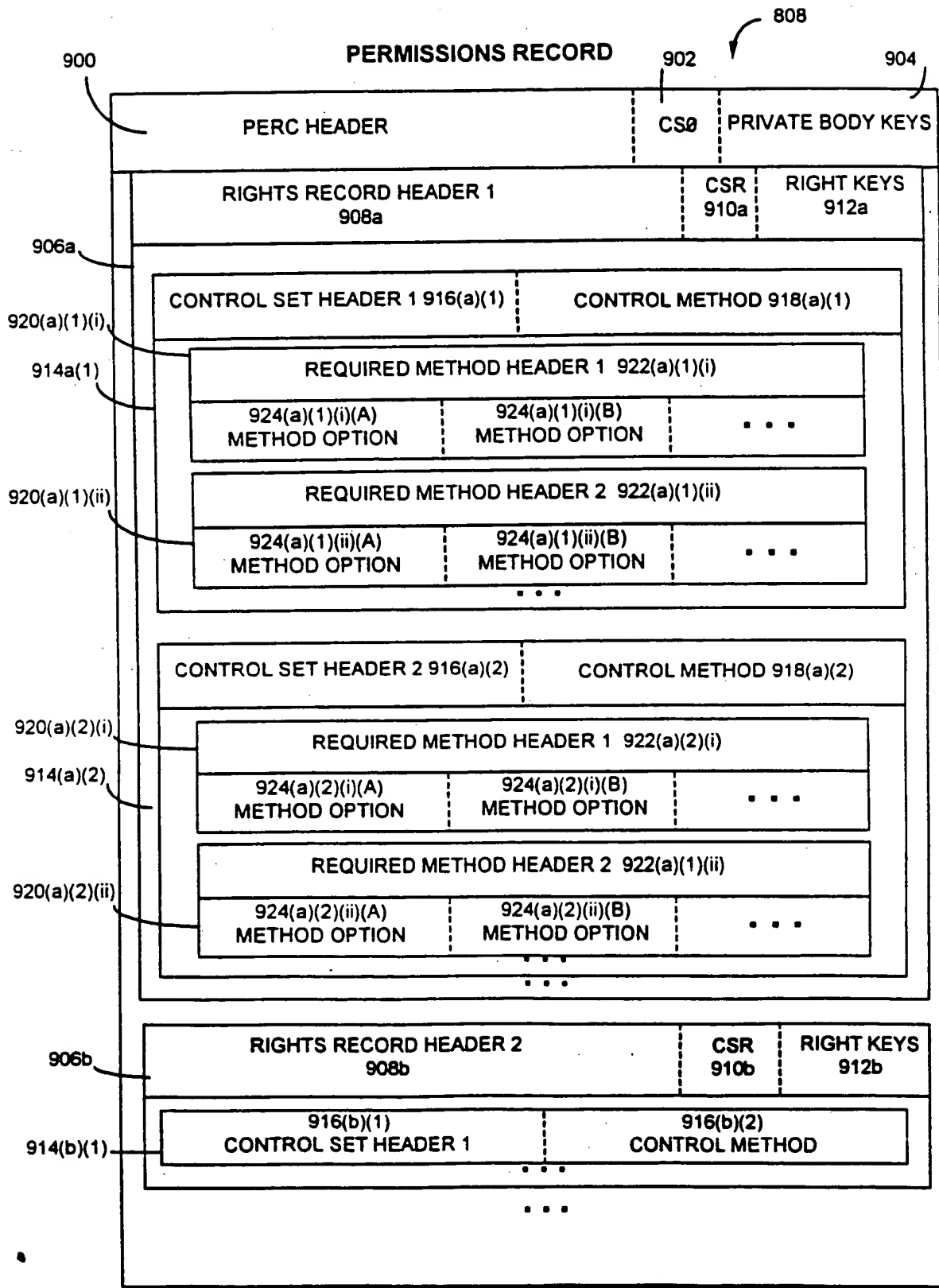


FIG. 25C

FIG. 25C

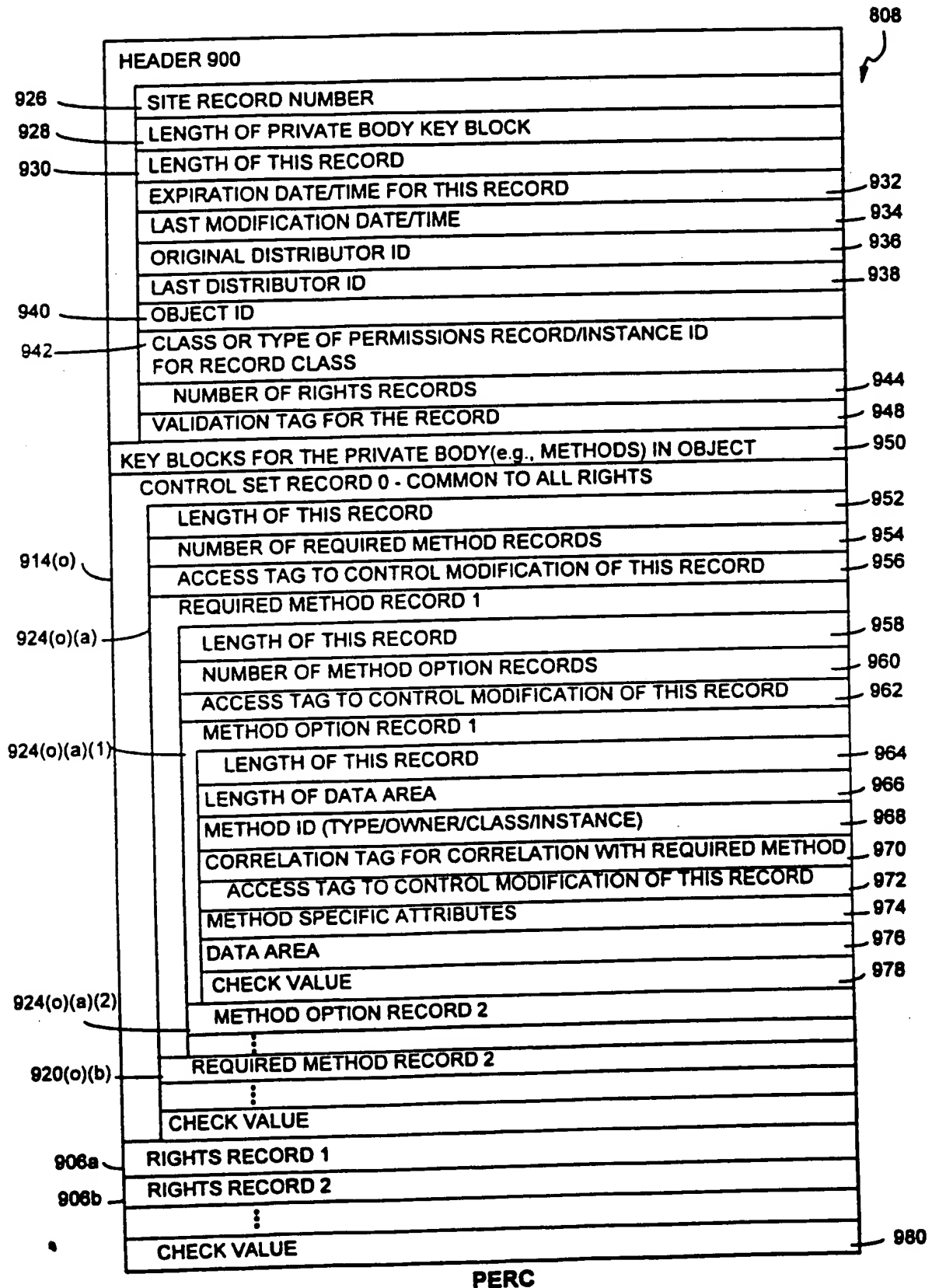


# FIG. 26

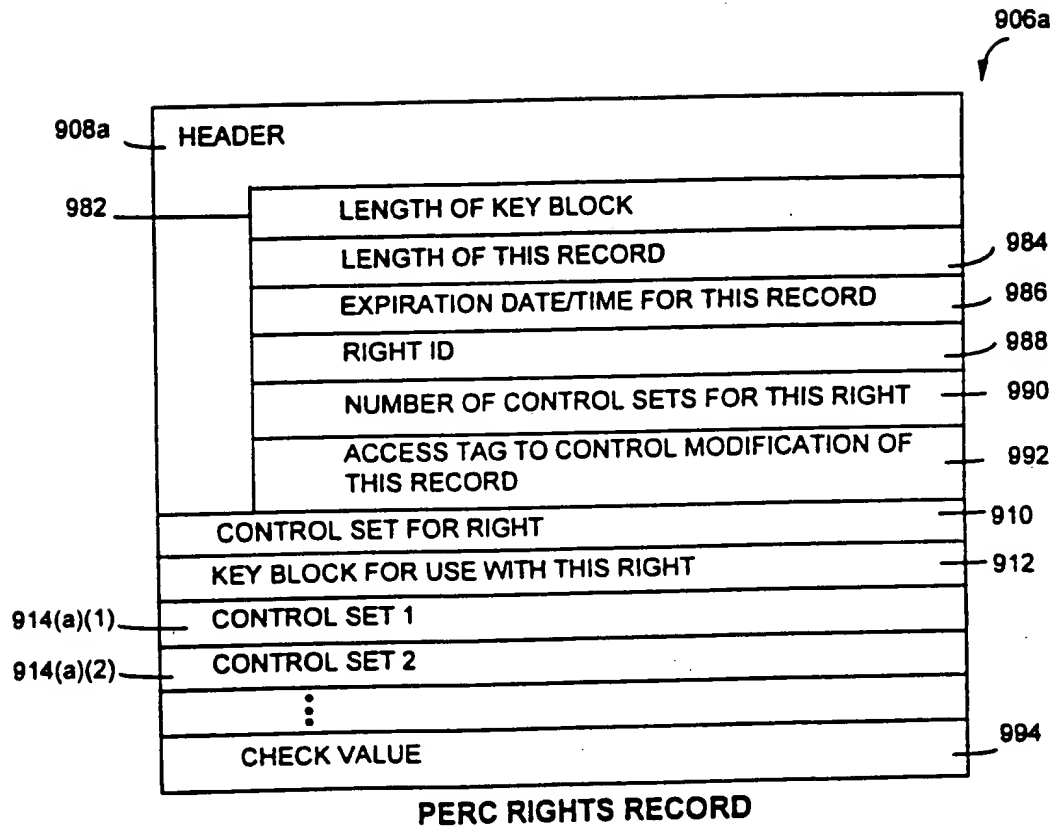




# FIG. 26A



**FIG. 26B**



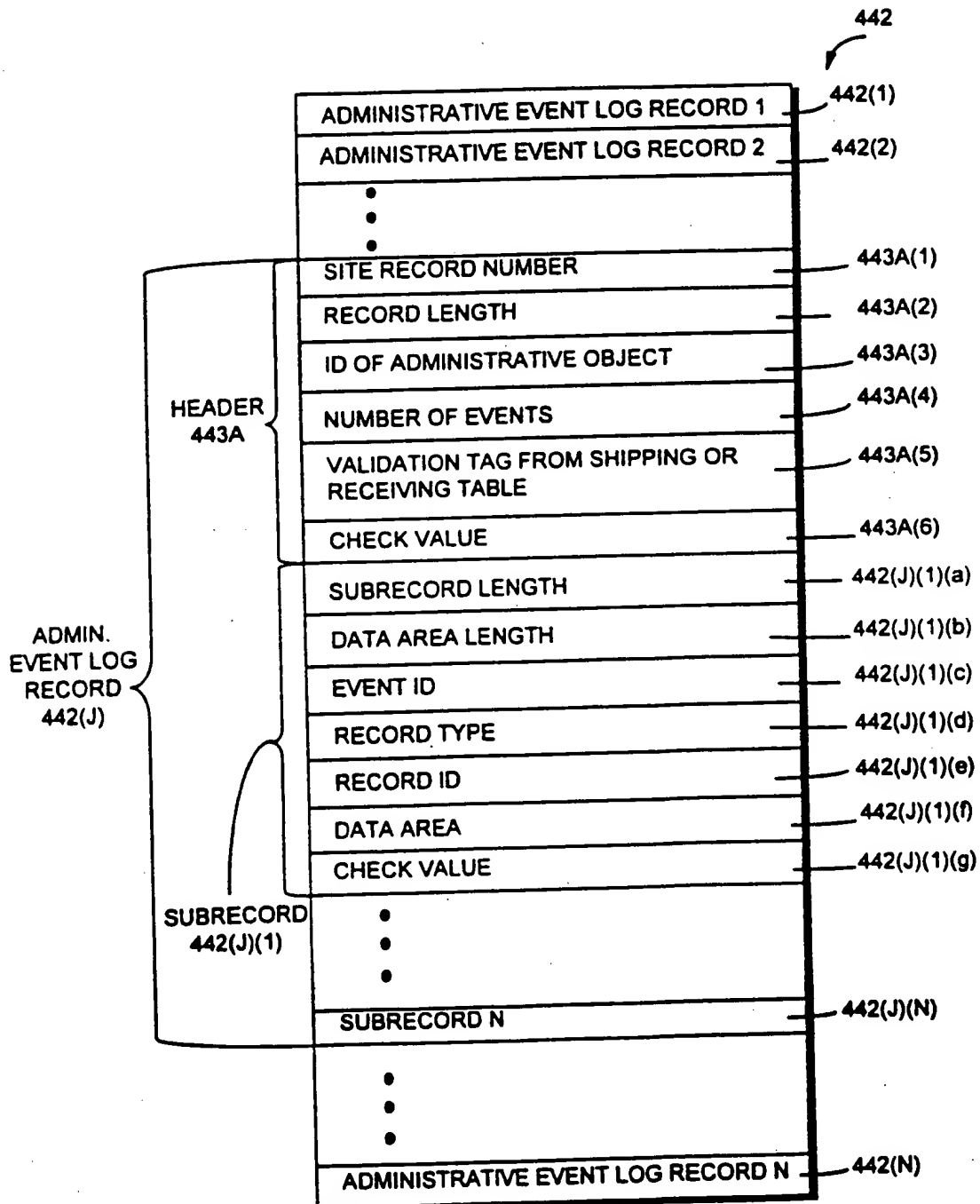
**FIG. 27**  
SHIPPING TABLE

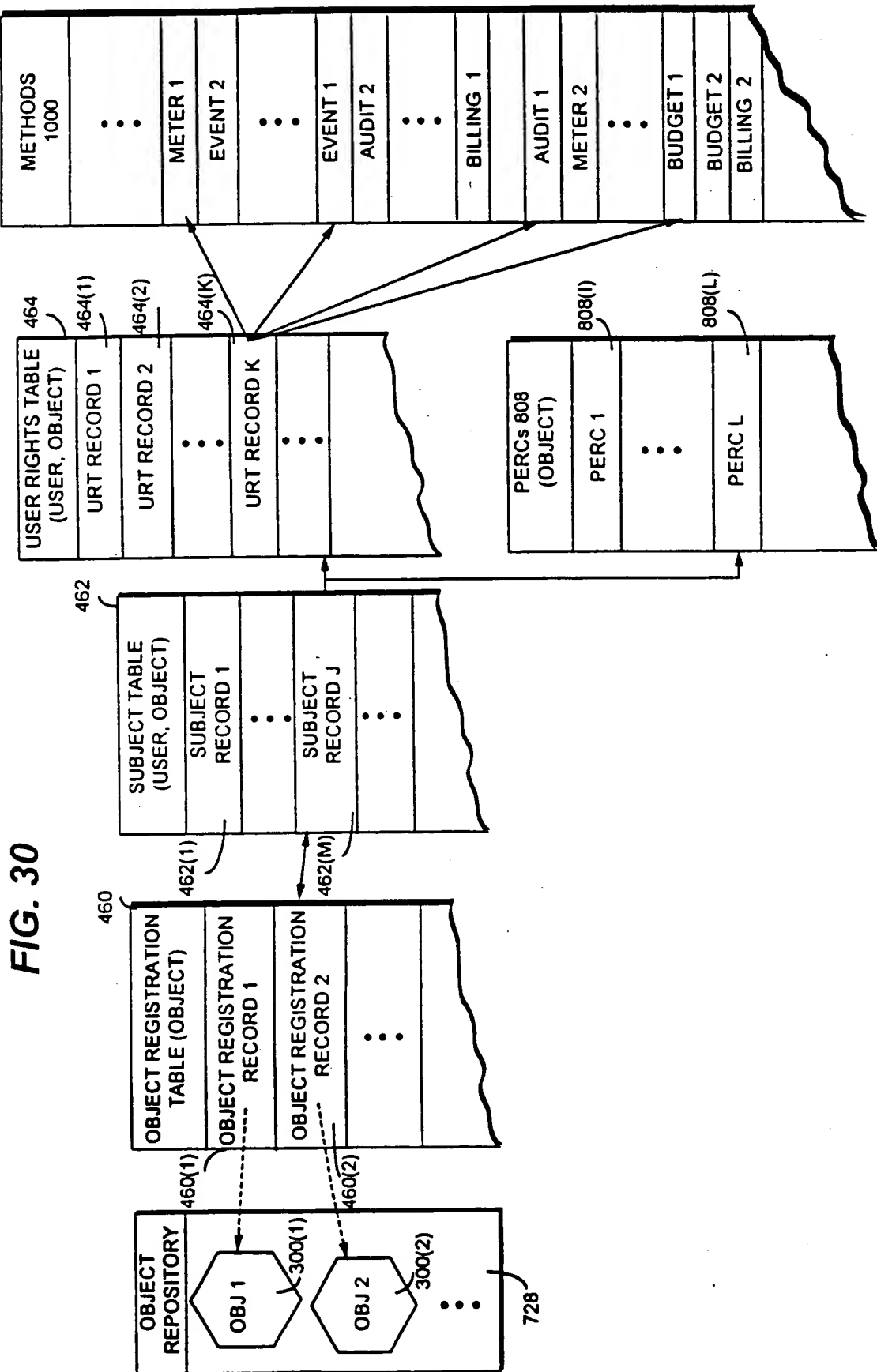
HEADER 444A	444A(1)		SITE RECORD NUMBER	444
			USER (GROUP) ID	444A(2)
			REF. TO "FIRST" COMPLETED OUTGOING SHIPPING RECORD	444A(3)
			REF. TO "LAST" COMPLETED OUTGOING SHIPPING RECORD	444A(4)
			REF. TO "FIRST" SCHEDULED OUTGOING SHIPPING RECORD	444A(5)
			REF. TO "LAST" SCHEDULED OUTGOING SHIPPING RECORD	444A(6)
			VALIDATION TAG FROM NAME SERVICES RECORD	444A(7)
			VALIDATION TAG FOR "FIRST" OUTGOING SHIPPING RECORD(S)	444A(8)
			CHECK VALUE	444A(9)
SHIPPING RECORD 445(1)			SITE RECORD NUMBER	445(1)(A)
			FIRST DATE/TIME FOR SCHEDULED SHIPMENT	445(1)(B)
			LAST DATE/TIME FOR SCHEDULED SHIPMENT	445(1)(C)
			ACTUAL DATE/TIME OF COMPLETED SHIPMENT	445(1)(D)
			OBJECT ID OF ADMINISTRATIVE OBJECT (TO BE) SHIPPED	445(1)(E)
			REF. TO ENTRY IN ADMINISTRATIVE EVENT LOG	445(1)(F)
			REF. TO NAME SERVICES RECORD NAMING RECIPIENT	445(1)(G)
			PURPOSE OF SHIPMENT	445(1)(H)
			STATUS OF SHIPMENT	445(1)(I)
			REF. TO "PREVIOUS" OUTGOING SHIPPING RECORD	445(1)(J)
			REF. TO "NEXT" OUTGOING SHIPPING RECORD	445(1)(K)
			VALIDATION TAG FROM HEADER	445(1)(L)
			VALIDATION TAG TO ADMINISTRATIVE EVENT LOG	445(1)(M)
			VALIDATION TAG TO NAME SERVICES RECORD	445(1)(N)
			VALIDATION TAG FROM PREVIOUS RECORD	445(1)(O)
			VALIDATION TAG TO NEXT RECORD	445(1)(P)
			CHECK VALUE	445(1)(Q)
			⋮	
			SHIPPING RECORD N	445(1)(R)

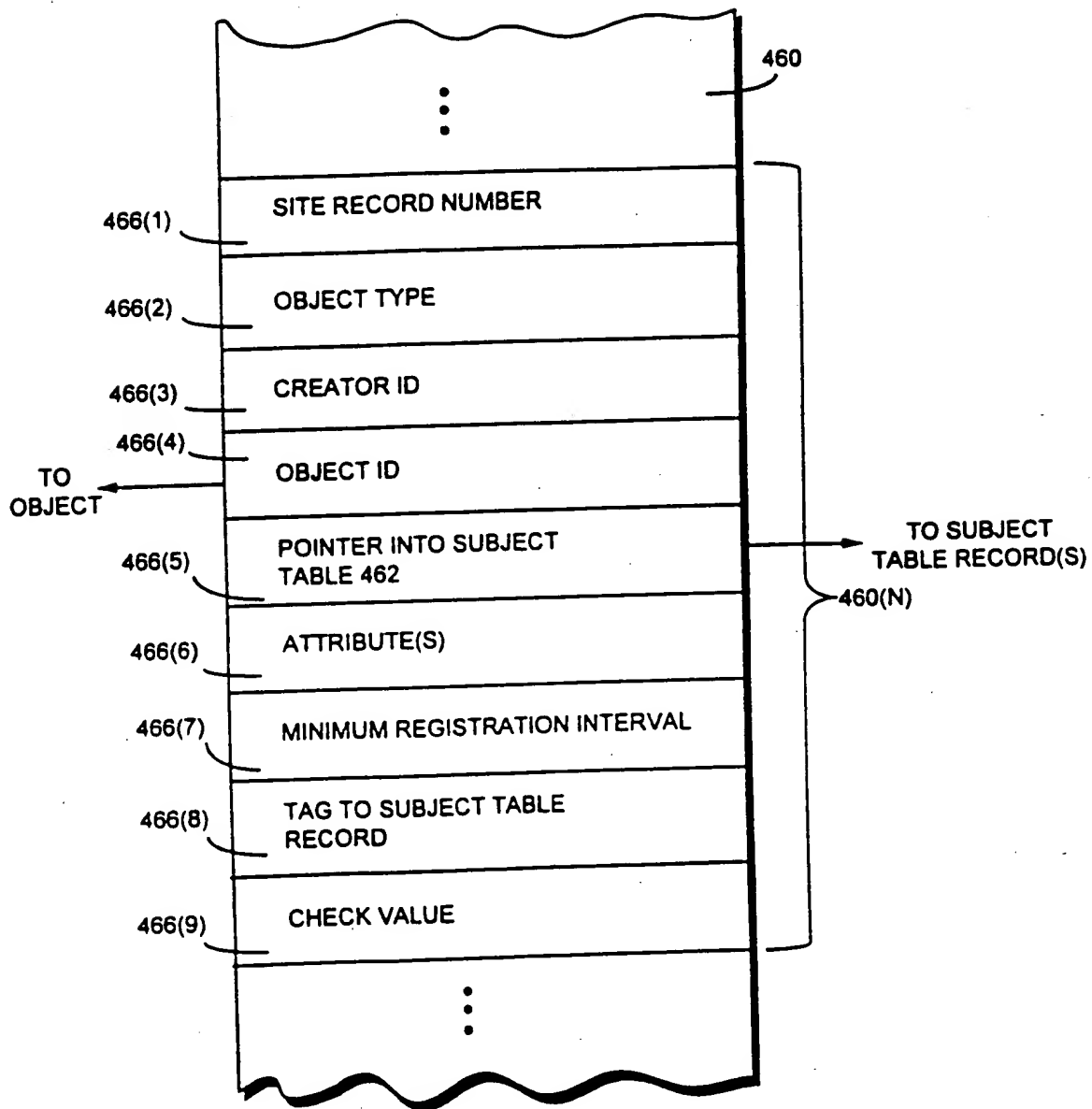
**FIG. 28**  
RECEIVING TABLE

		446A(1)	
HEADER 446A	SITE RECORD NUMBER		446
	USER (GROUP) ID		446A(2)
	REF. TO "FIRST" COMPLETED INCOMING RECEIVING RECORD		446A(3)
	REF. TO "LAST" COMPLETED INCOMING RECEIVING RECORD		446A(4)
	REF. TO "FIRST" SCHEDULED INCOMING RECEIVING RECORD		446A(5)
	REF. TO "LAST" SCHEDULED INCOMING RECEIVING RECORD		446A(6)
	VALIDATION TAG FROM NAME SERVICES RECORD		446A(7)
	VALIDATION TAG FOR "FIRST" INCOMING RECEIVING RECORD(S)		446A(8)
	CHECK VALUE		446A(9)
RECEIVING RECORD 447(1)	SITE RECORD NUMBER		447(1)(A)
	FIRST DATE/TIME FOR SCHEDULED RECEPTION		447(1)(B)
	LAST DATE/TIME FOR SCHEDULED RECEPTION		447(1)(C)
	ACTUAL DATE/TIME OF COMPLETED RECEPTION		447(1)(D)
	OBJECT ID OF ADMINISTRATIVE OBJECT (TO BE) RECEIVED		447(1)(E)
	REF. TO ENTRY IN ADMINISTRATIVE EVENT LOG		447(1)(F)
	REF. TO NAME SERVICES RECORD NAMING SENDER		447(1)(G)
	PURPOSE OF RECEPTION		447(1)(H)
	STATUS OF RECEPTION		447(1)(I)
	REF. TO "PREVIOUS" INCOMING RECEIVING RECORD		447(1)(J)
	REF. TO "NEXT" INCOMING RECEIVING RECORD		447(1)(K)
	VALIDATION TAGS		447(1)(L)
	CHECK VALUE		447(1)(M)
	⋮		
	RECEIVING RECORD N		447(2)

**FIG. 29**  
ADMINISTRATIVE EVENT LOG







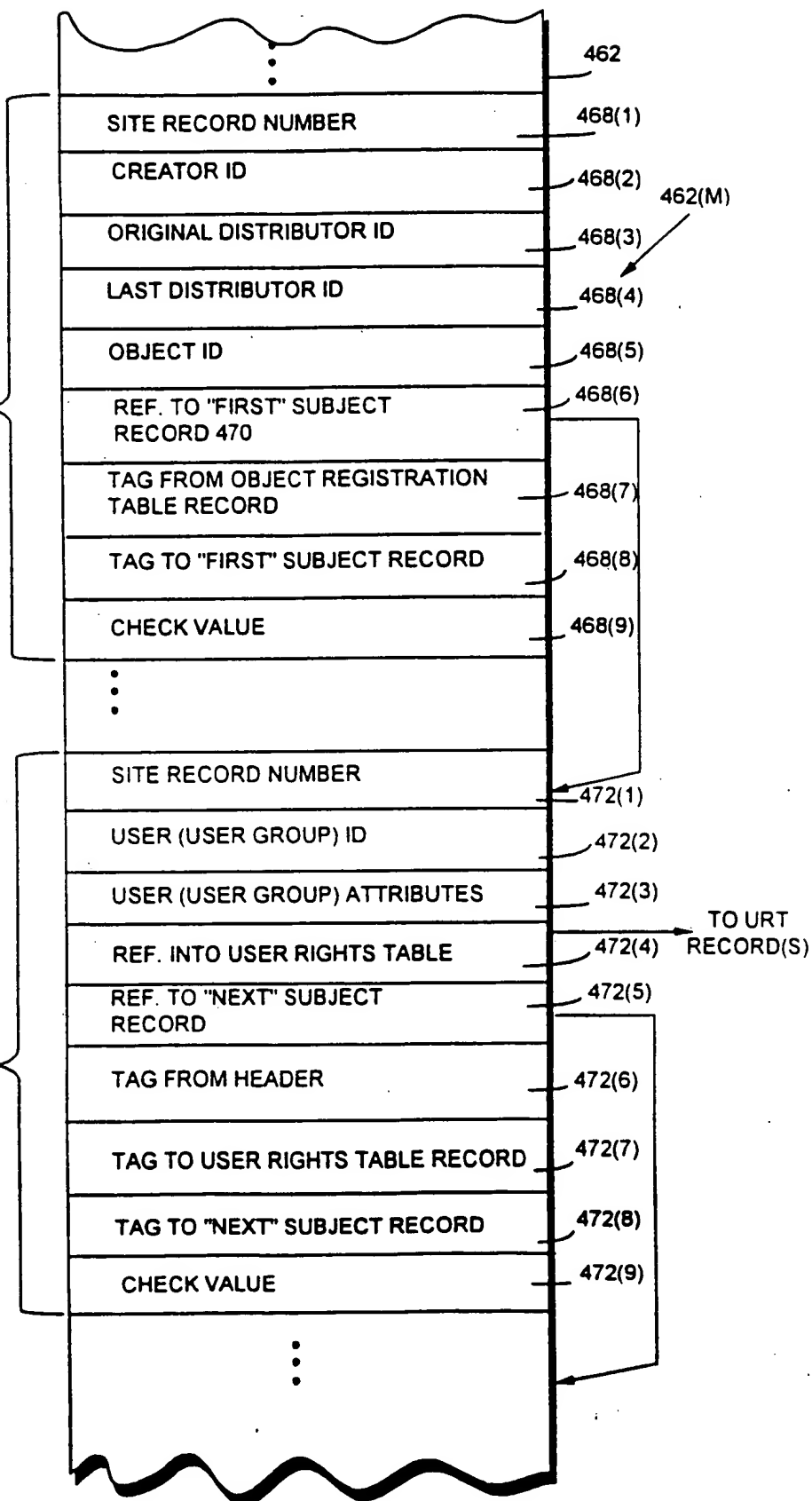
**FIG. 31**  
OBJECT REGISTRATION TABLE

**FIG. 32**

SUBJECT  
TABLE

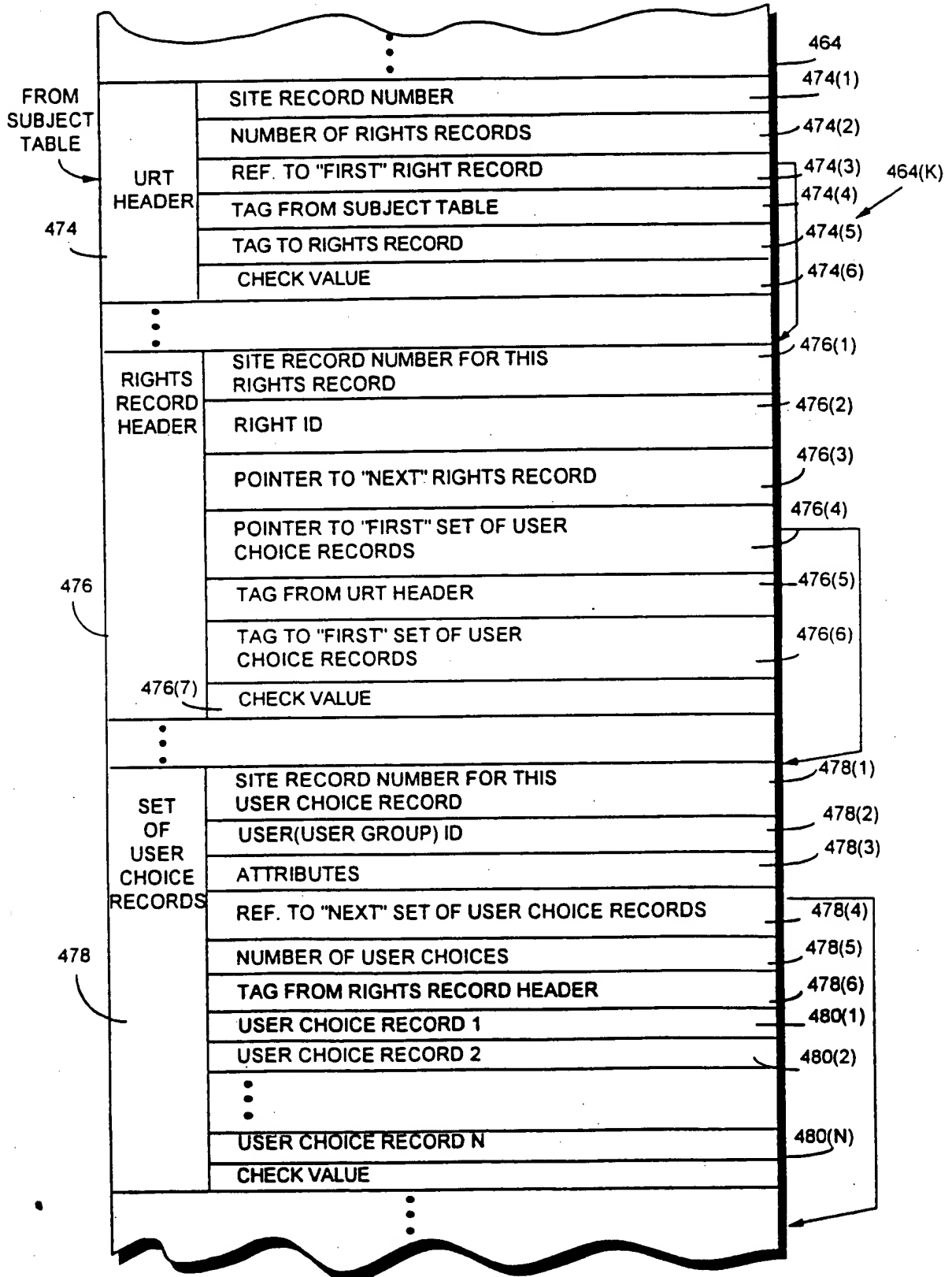
"HEADER"  
468

SUBJECT  
RECORD  
470(1)





**FIG. 33** USER RIGHTS TABLE



**FIG. 34A**

**SITE RECORD**

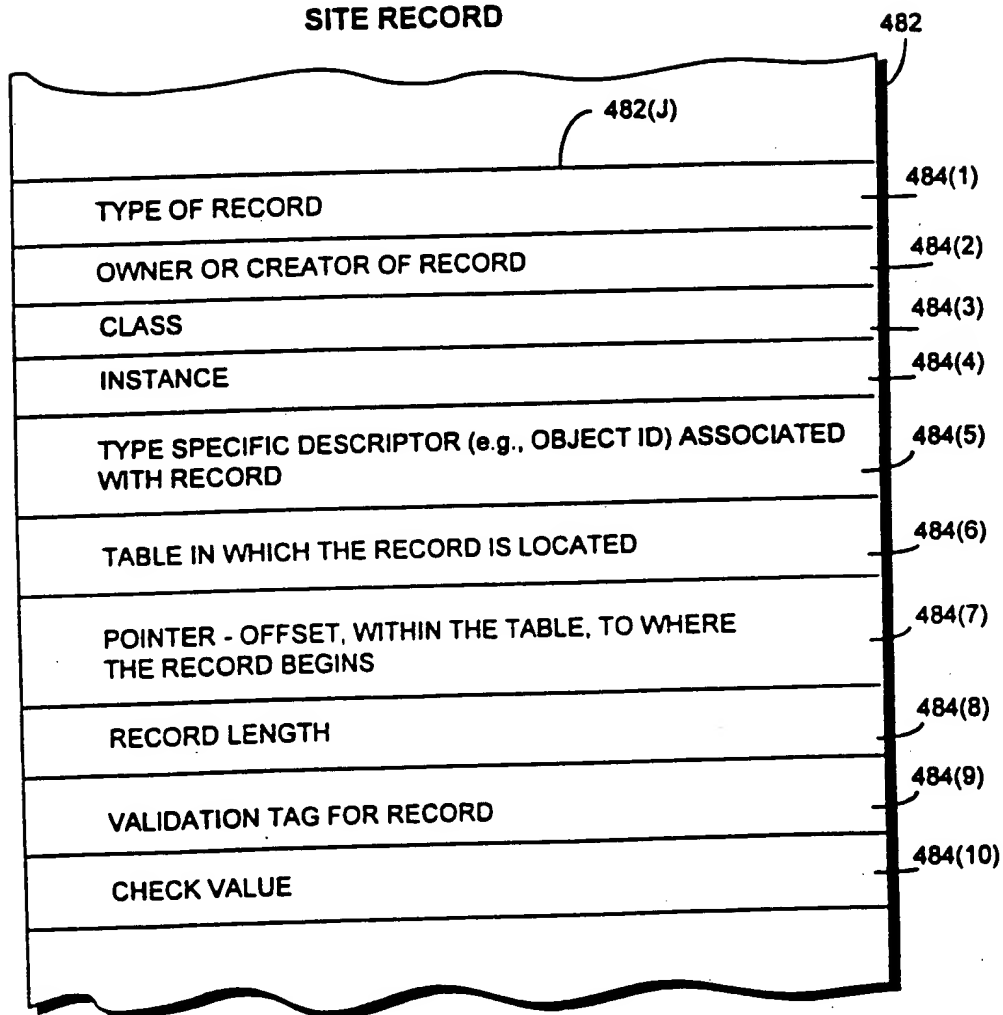
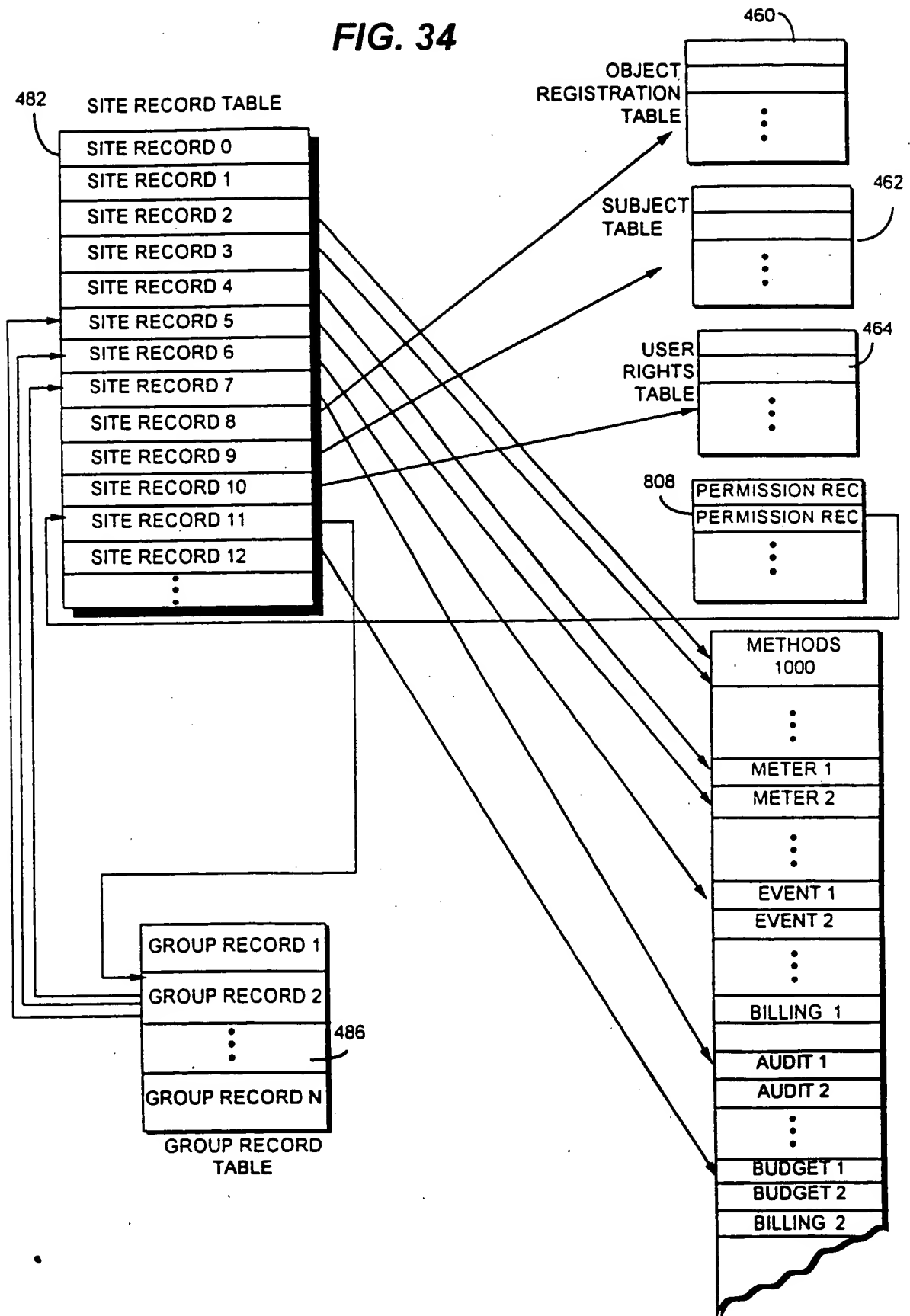


FIG. 34



**FIG. 34B**

**GROUP RECORD**

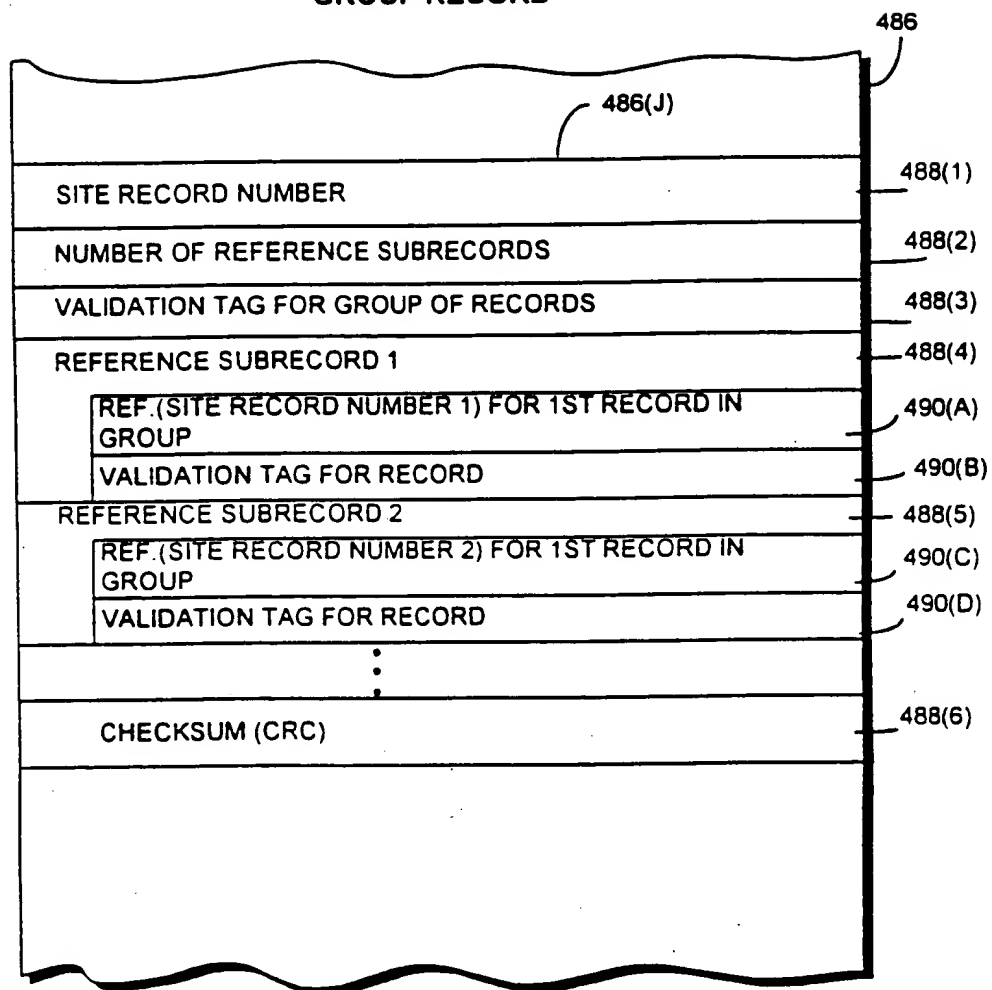


FIG. 34B

FIG. 35

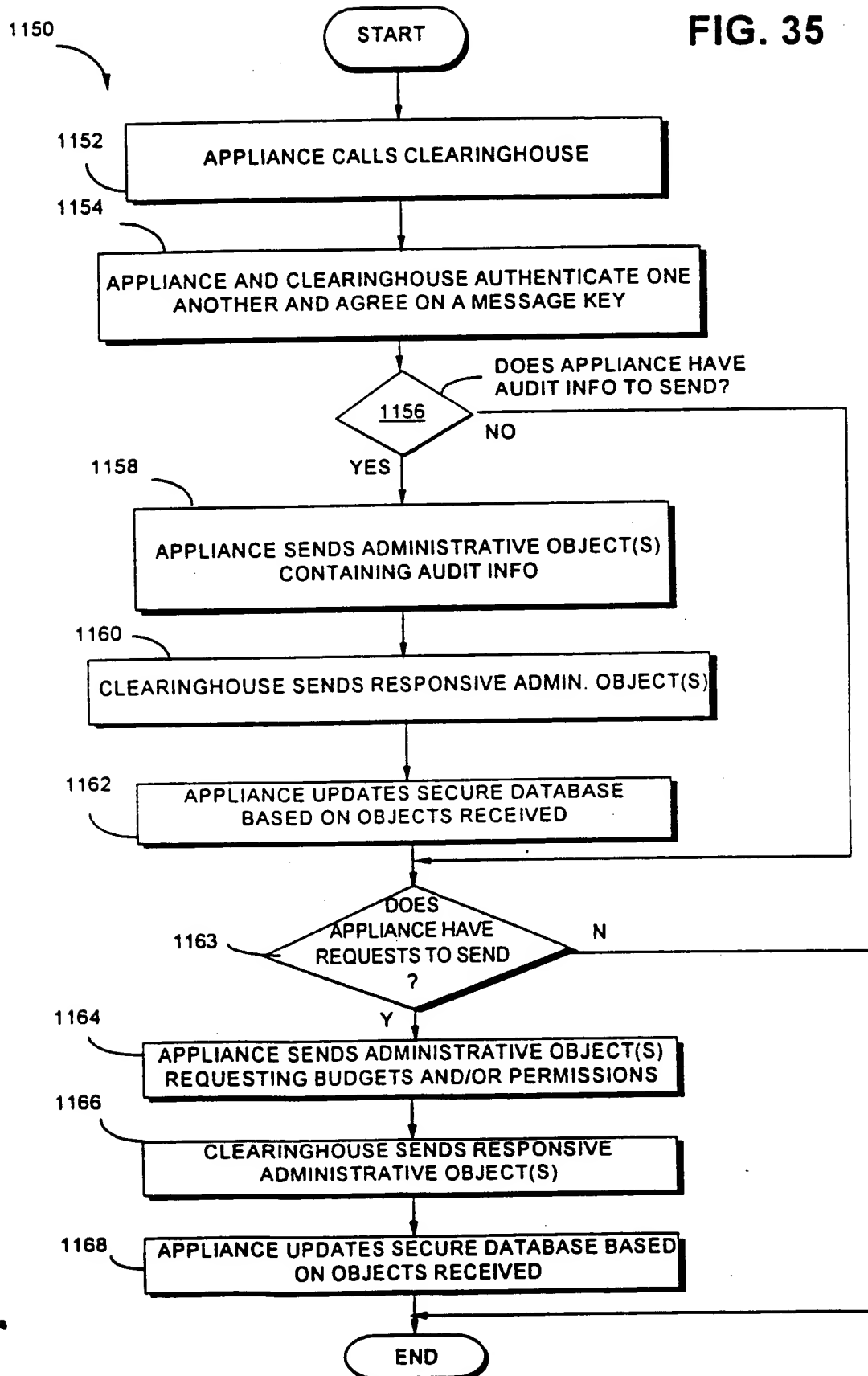


FIG. 36

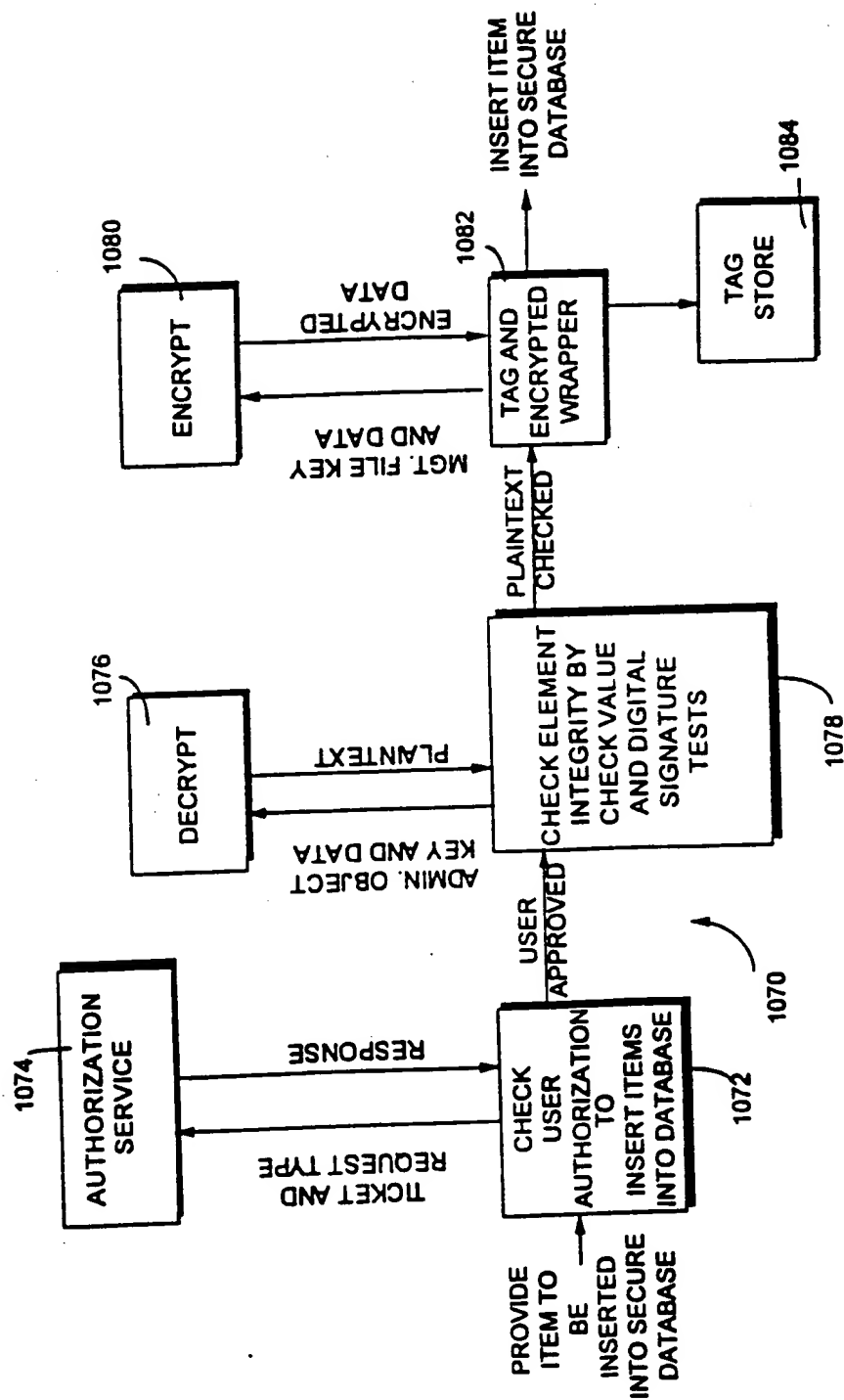


FIG. 37

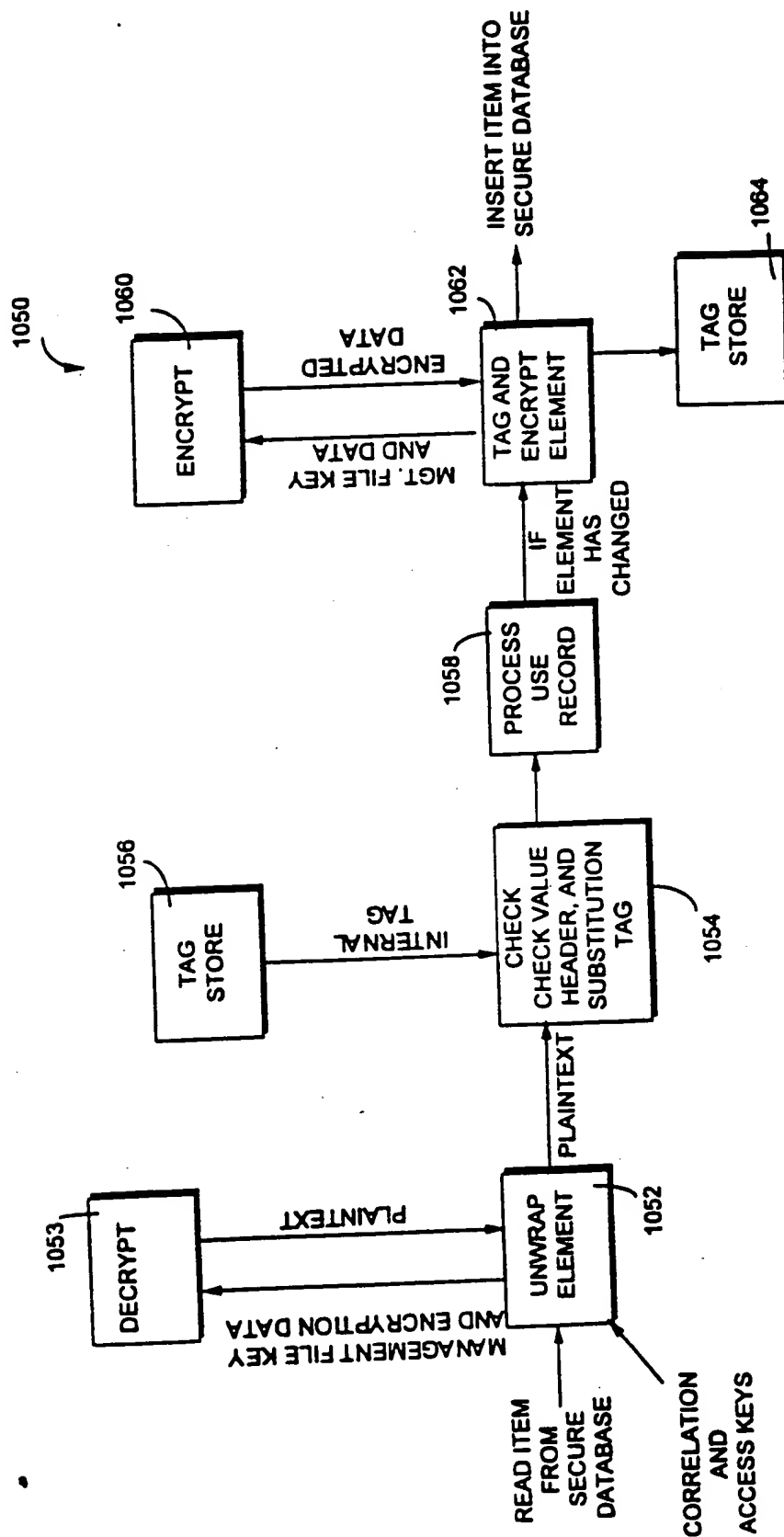
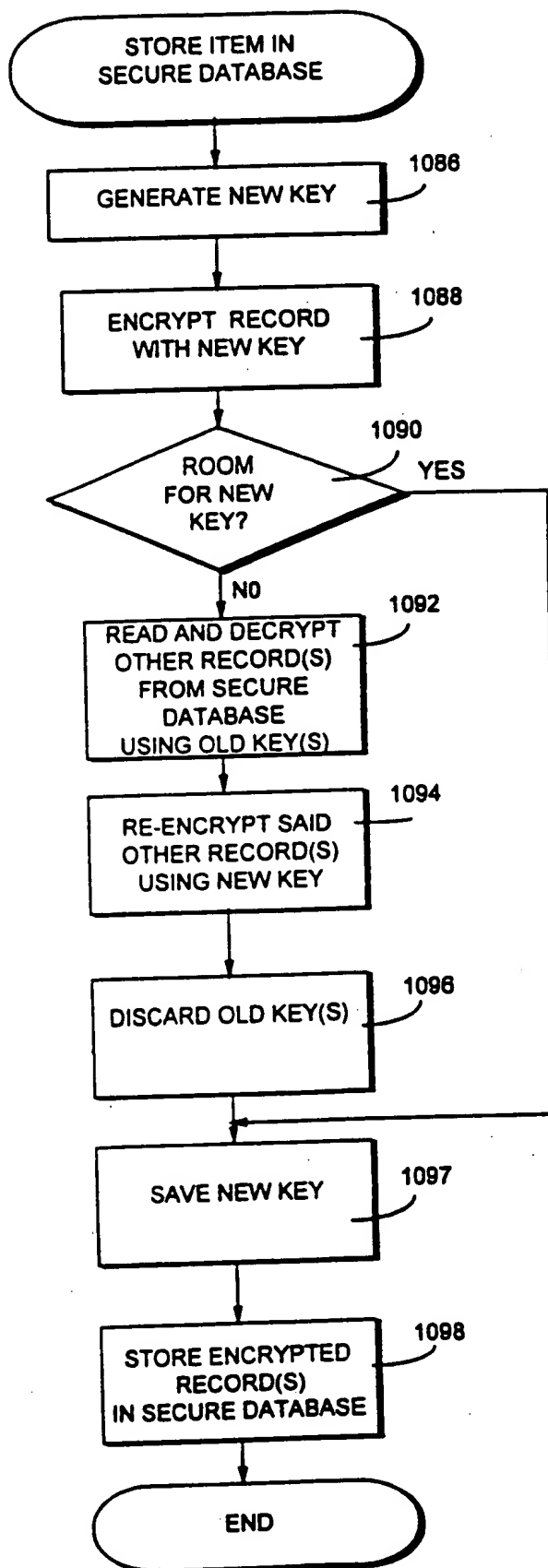
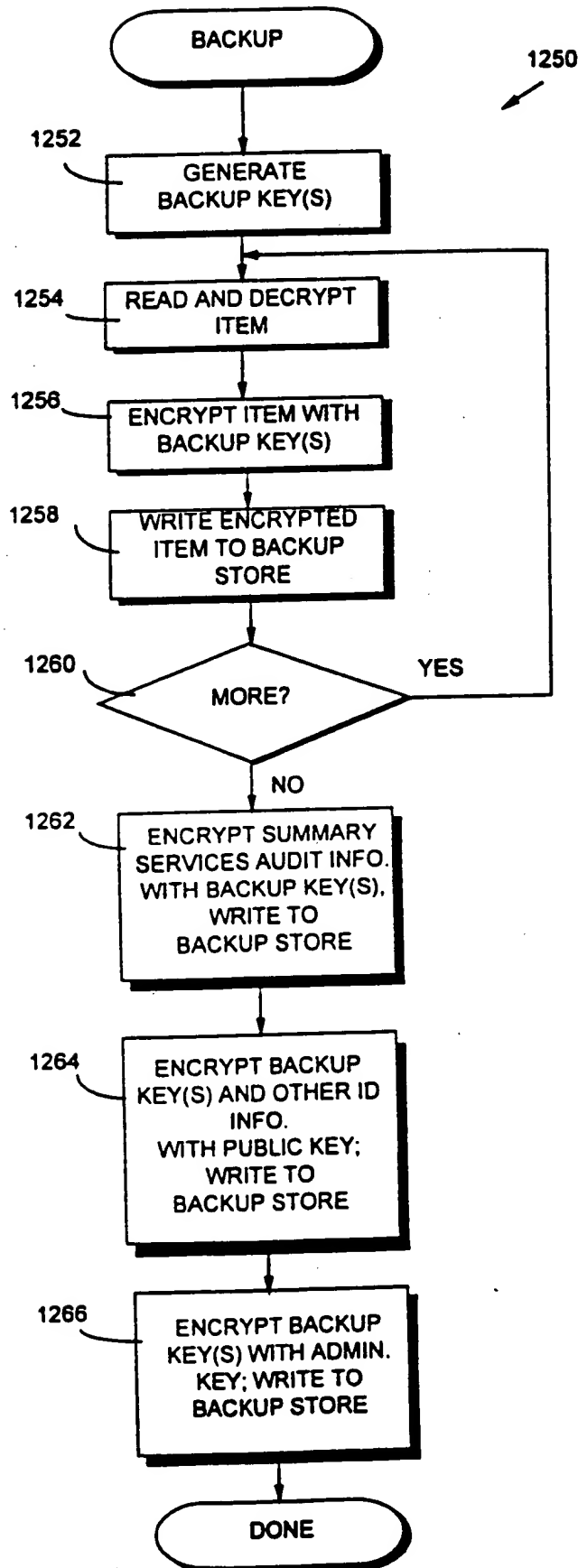


FIG. 38



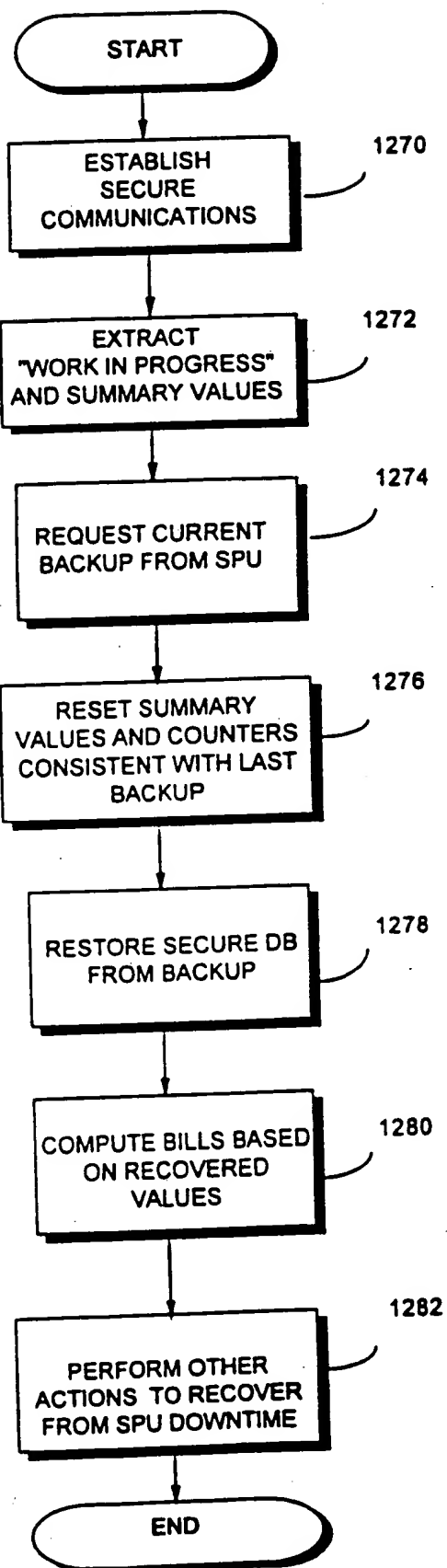


**FIG. 39**  
BACKUP



**FIG. 40**  
RECOVER SECURE DATABASE

1268



TOP SECRET

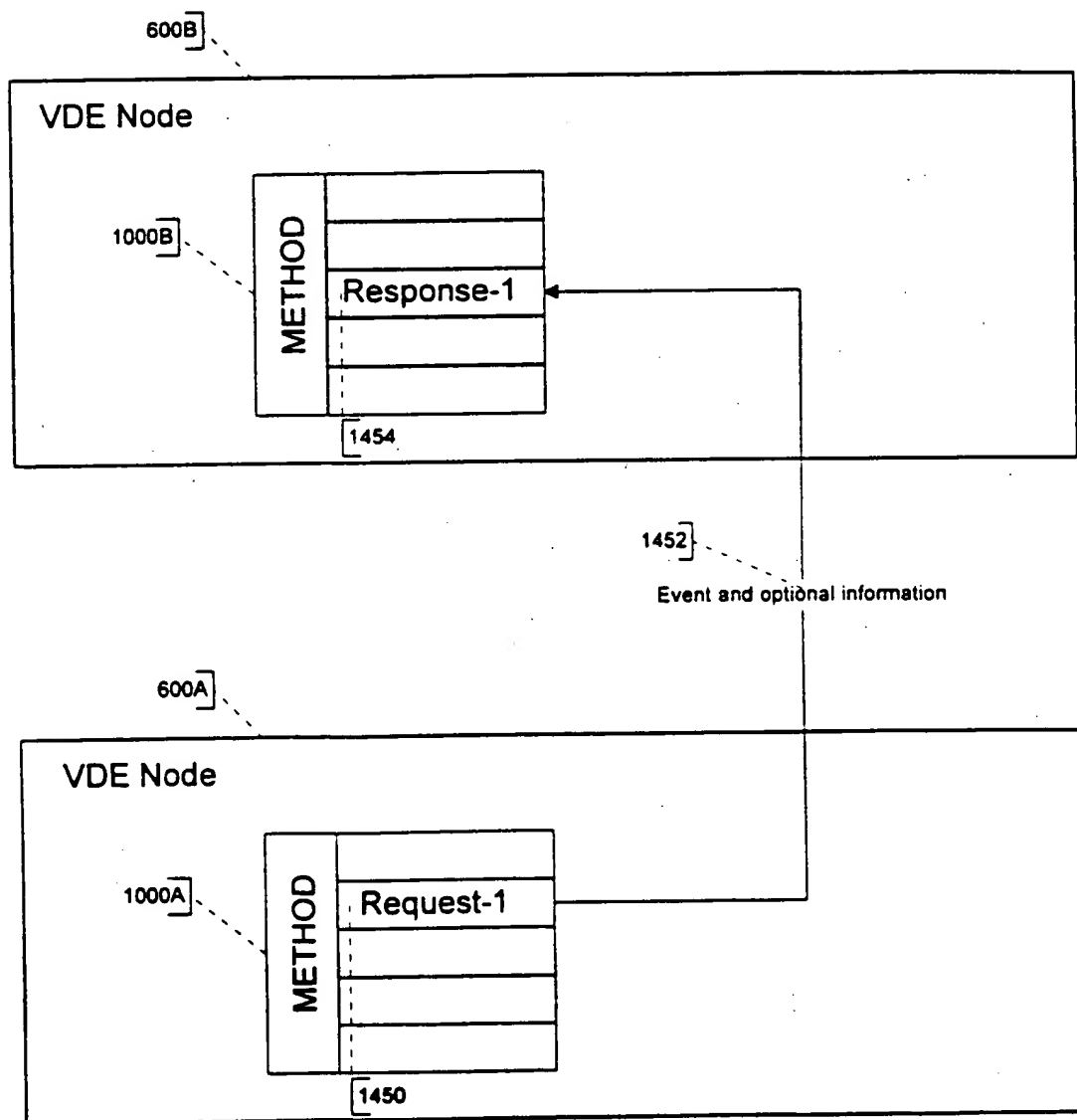


Figure 41a

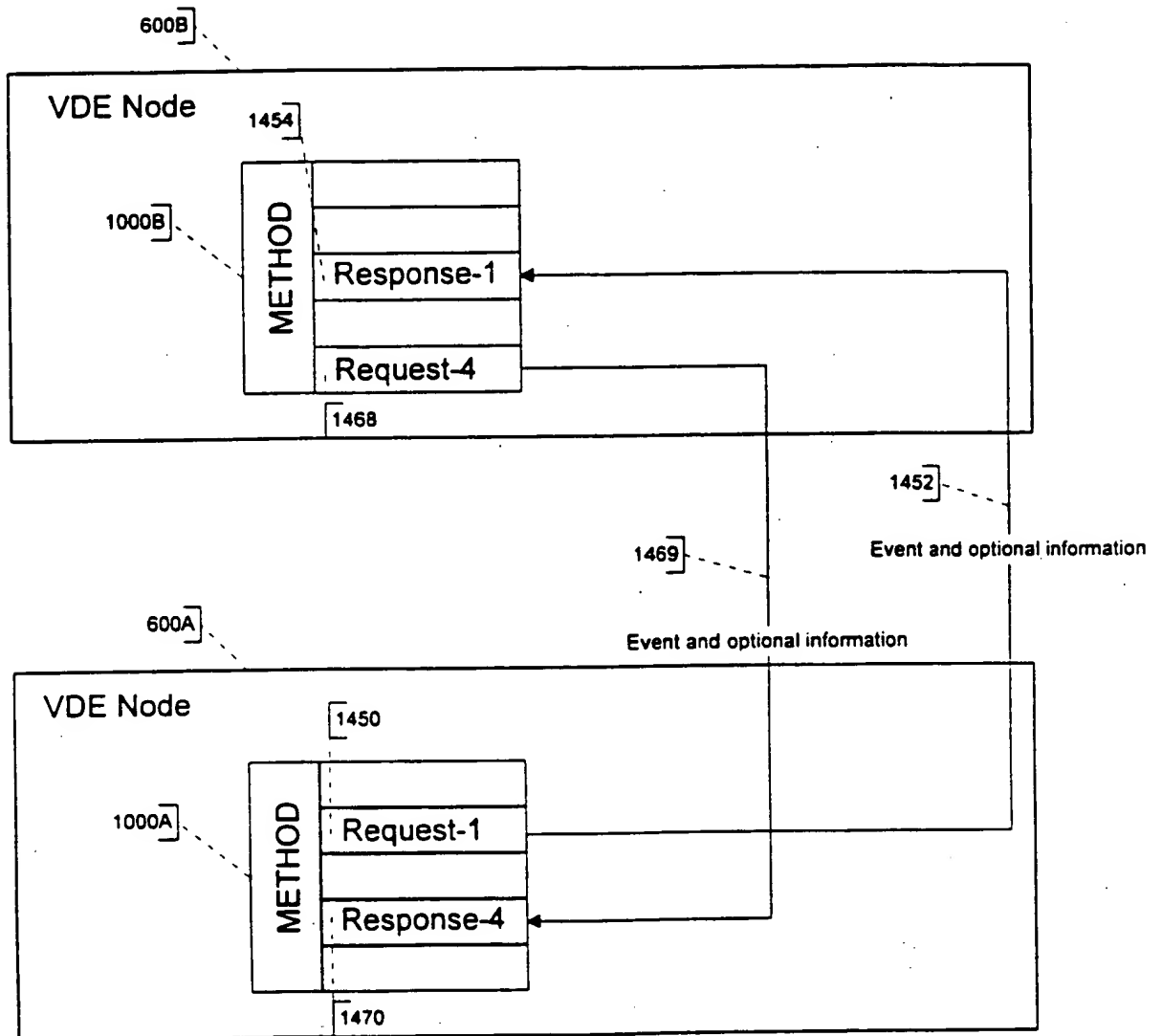
[illegible]

Figure 41b

TOP SECRET

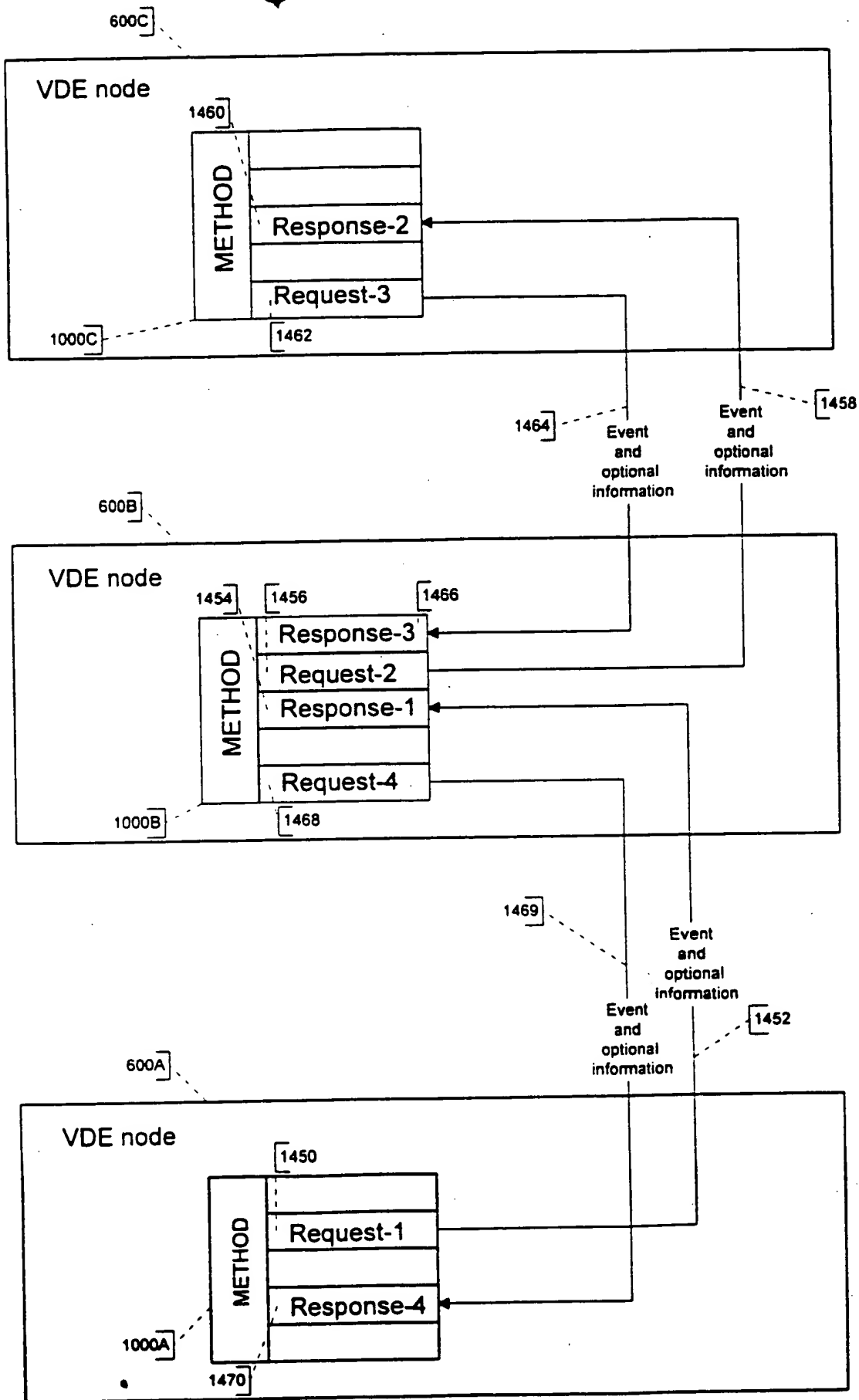


Figure 41c

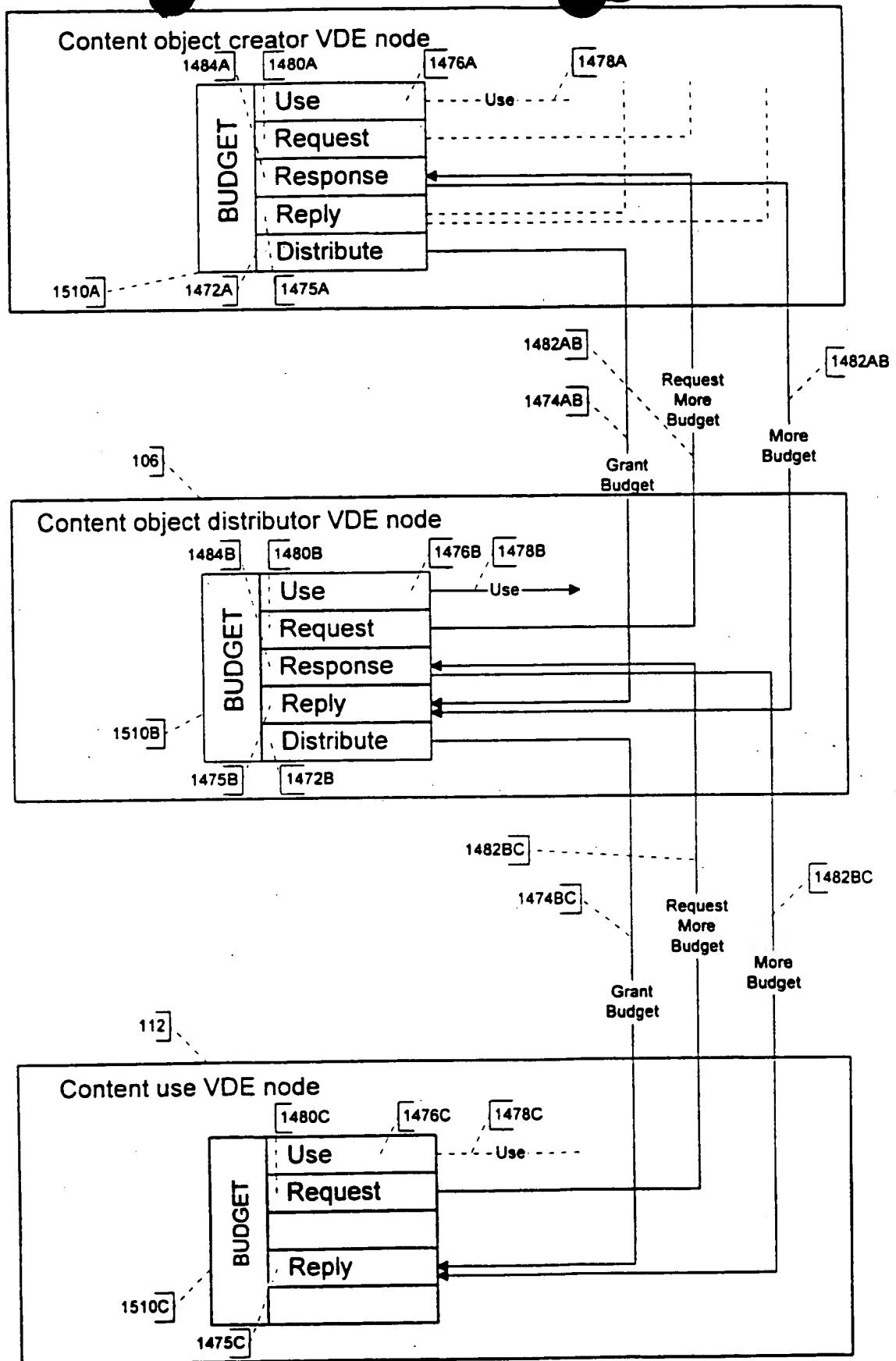


Figure 41d

# BUDGET Method Use Process Flow

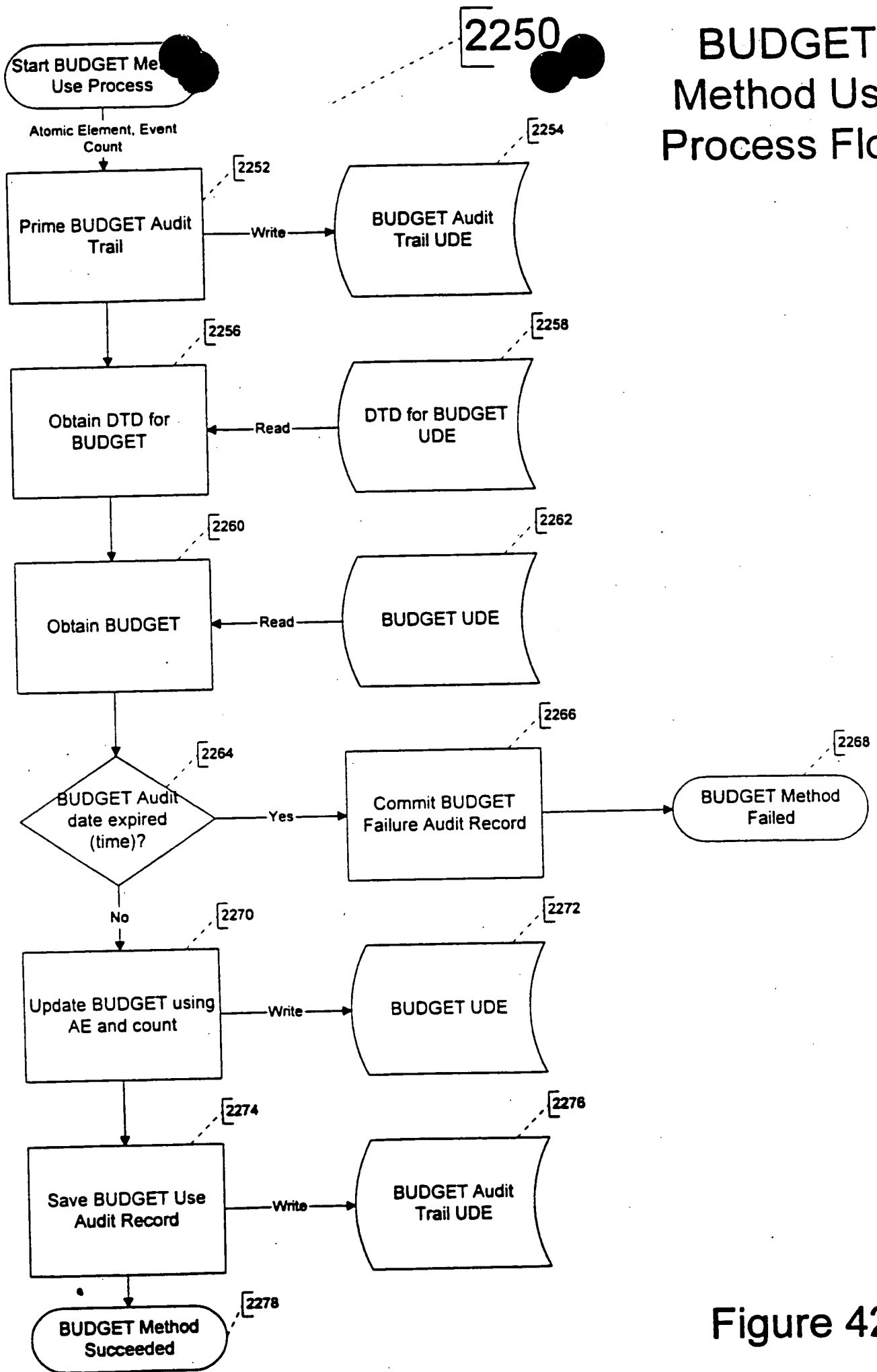
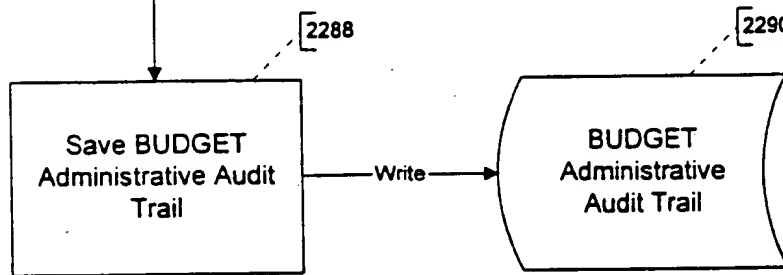
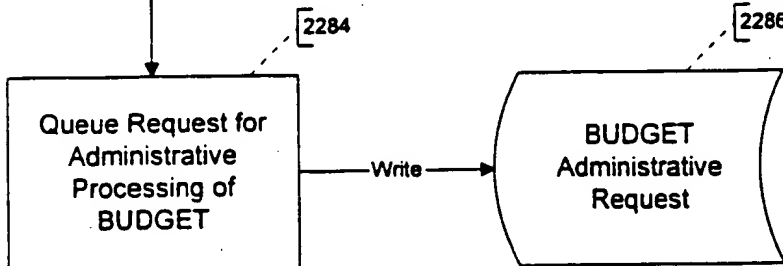
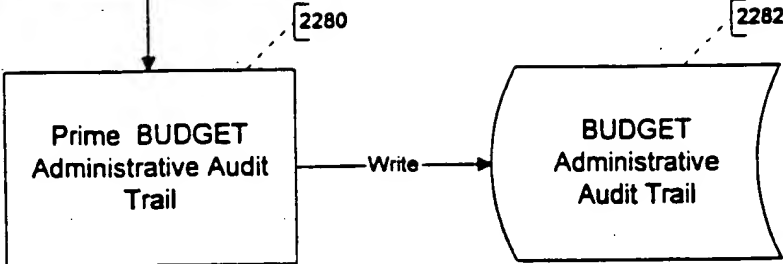


Figure 42a

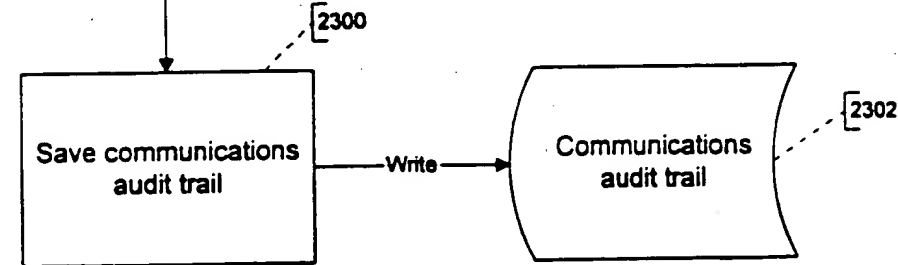
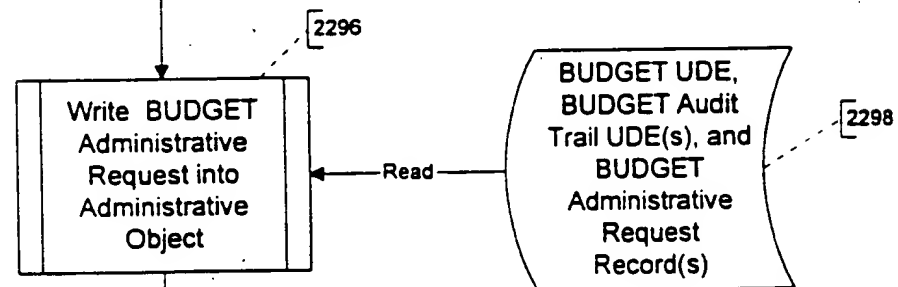
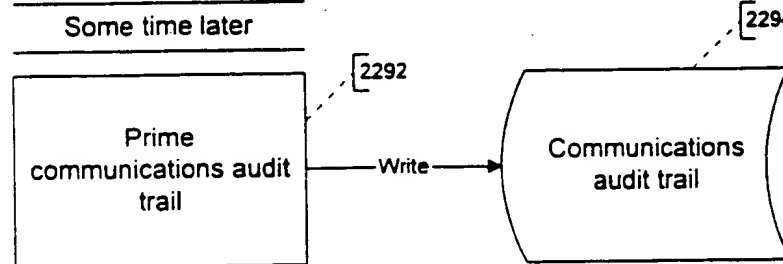
Start BUDGET Method  
Administrative Request  
Process

2250

# BUDGET Method Administrative Request Process Flow



Some time later



2304

End BUDGET Method  
Administration Request  
Process

Figure 42b



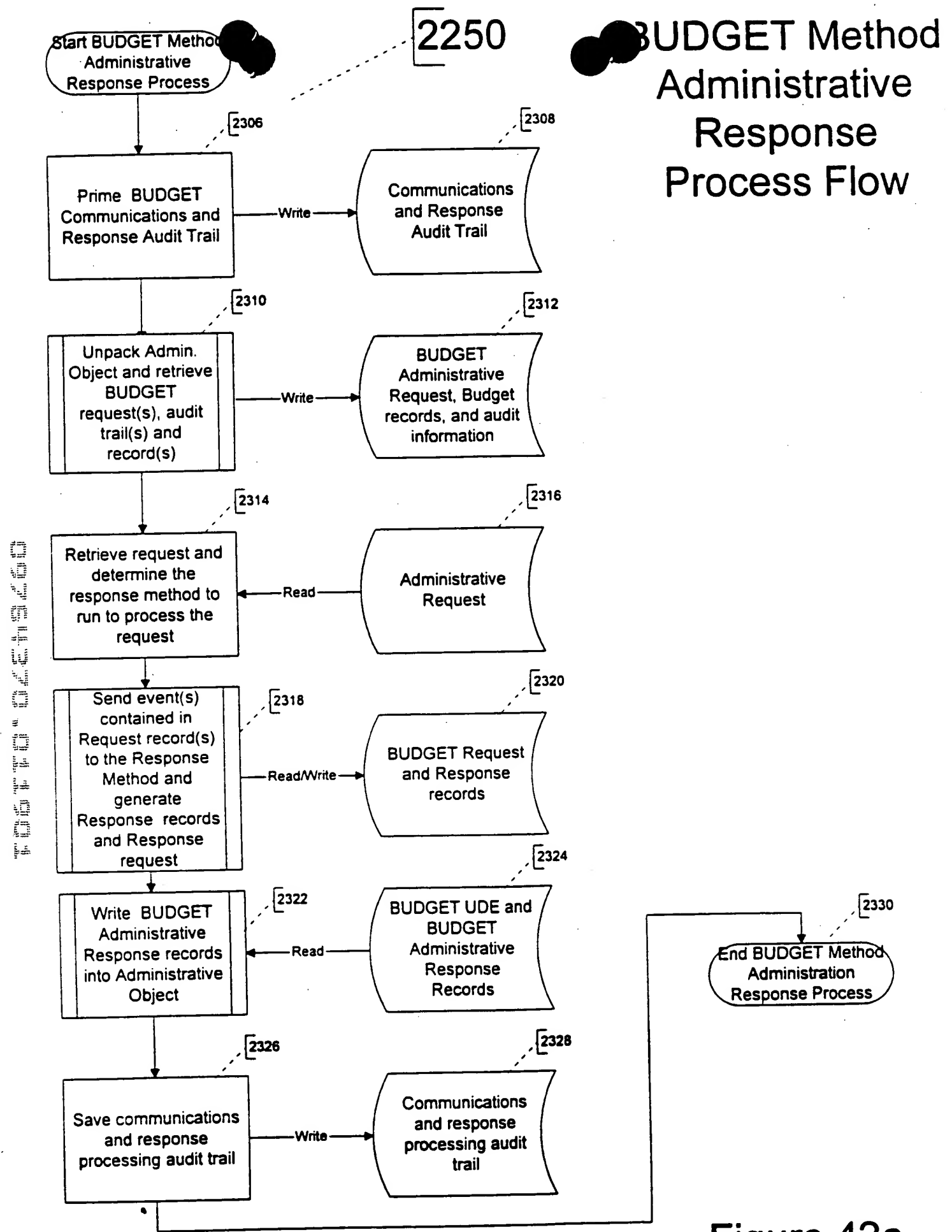


Figure 42c

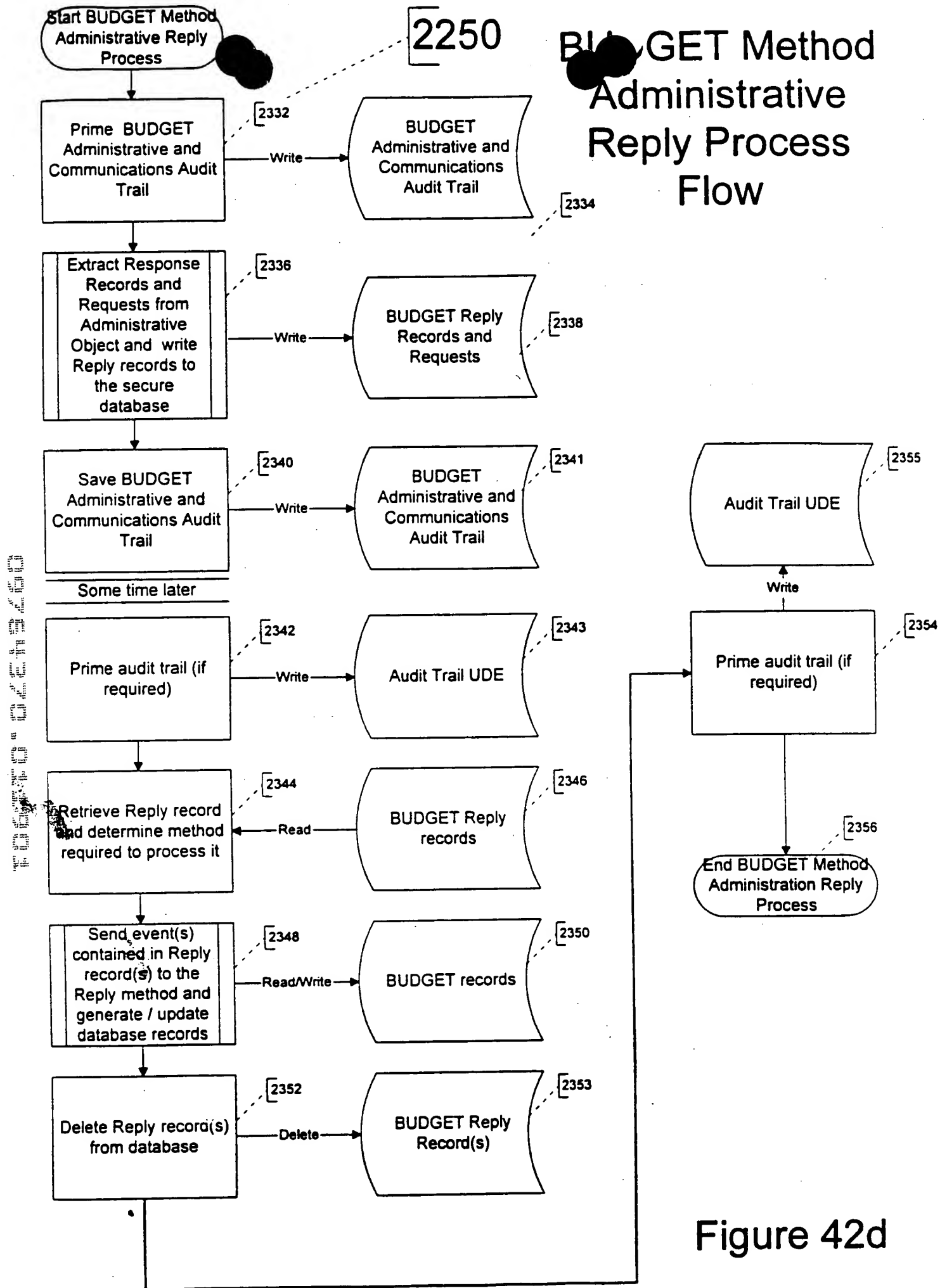


Figure 42d

# REGISTER Method Use Process Flow

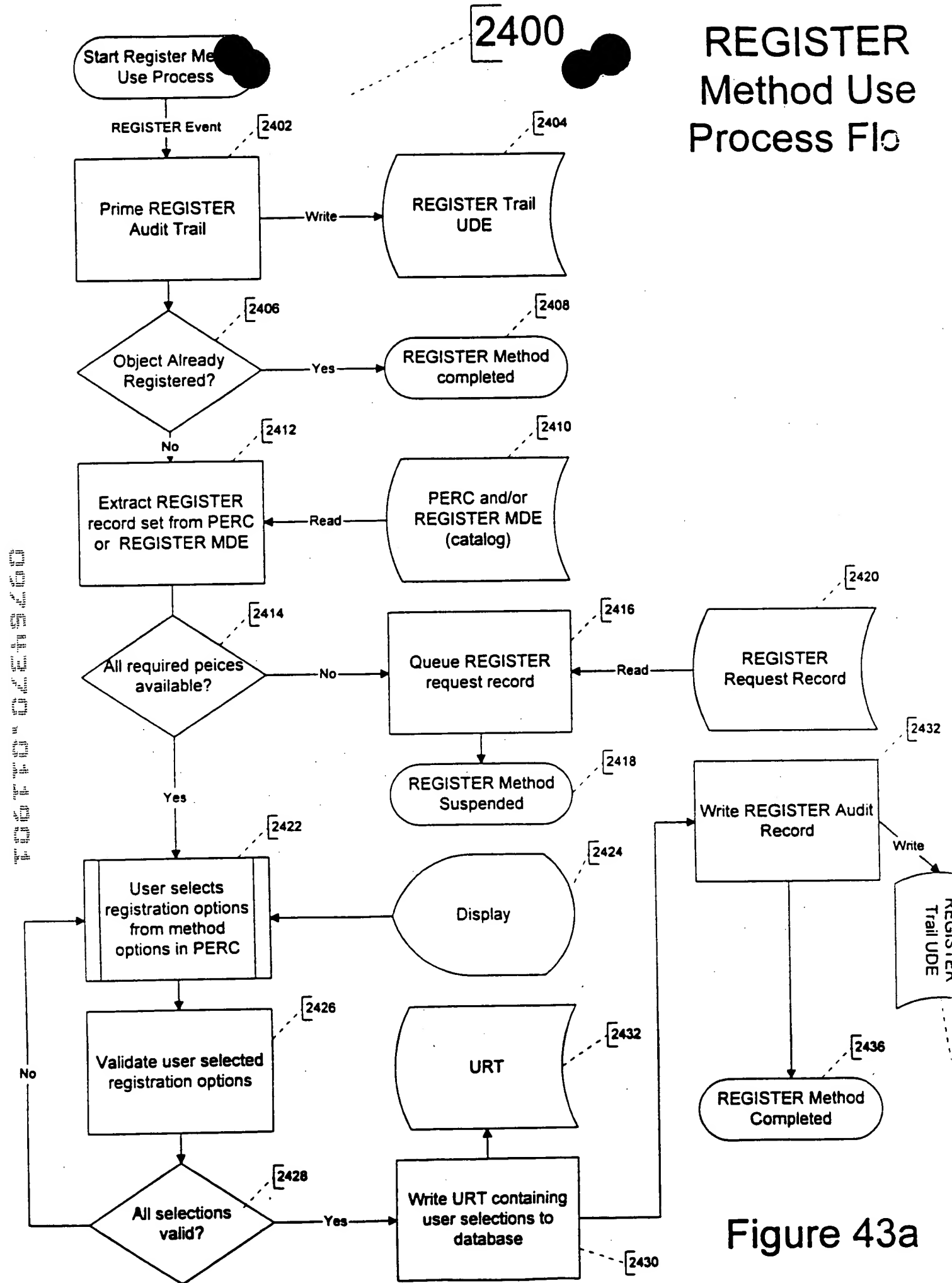


Figure 43a

# REGISTER Method Administrative Request Process Flow

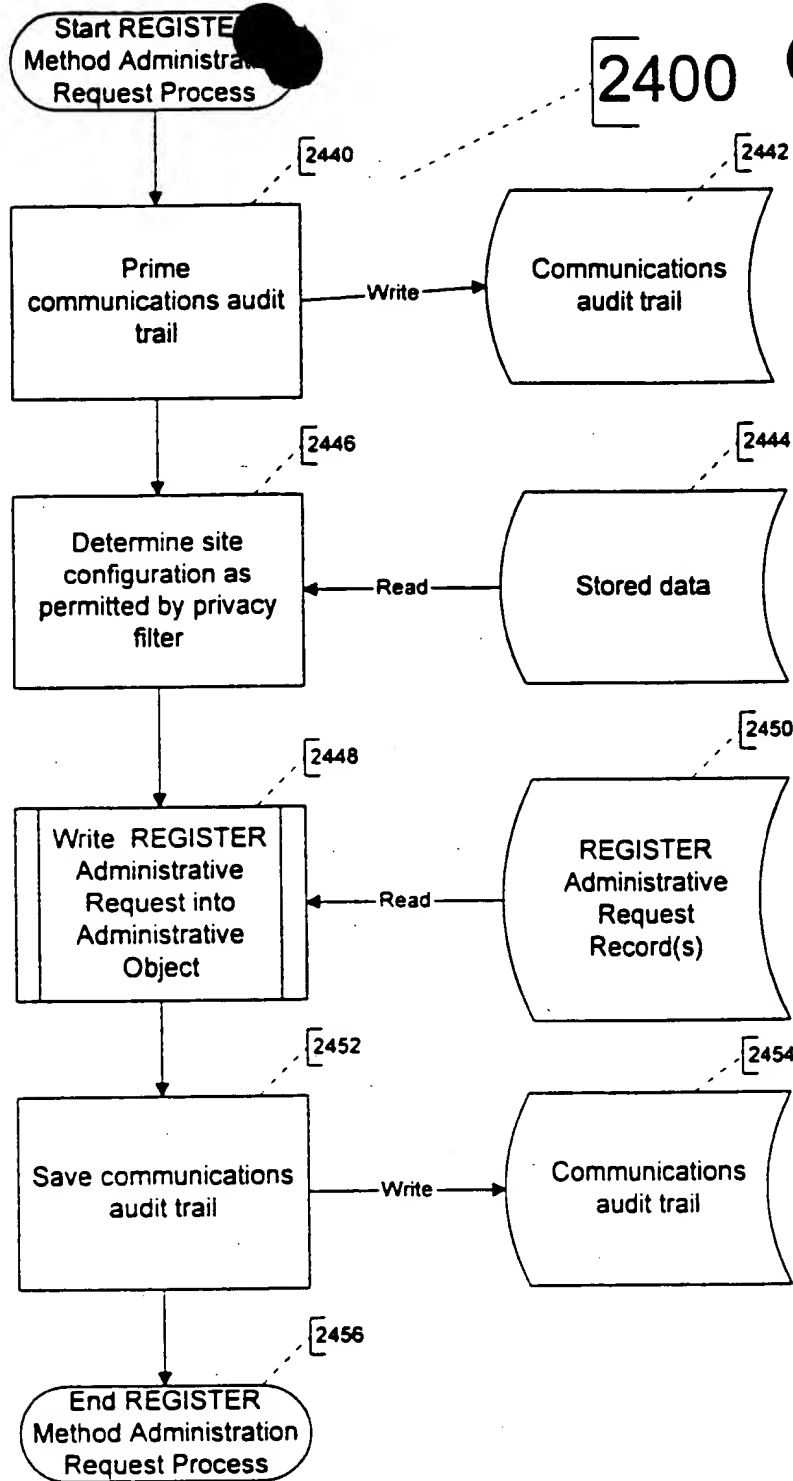


Figure 43b

# REGISTER Method Administrative Response Process Flow

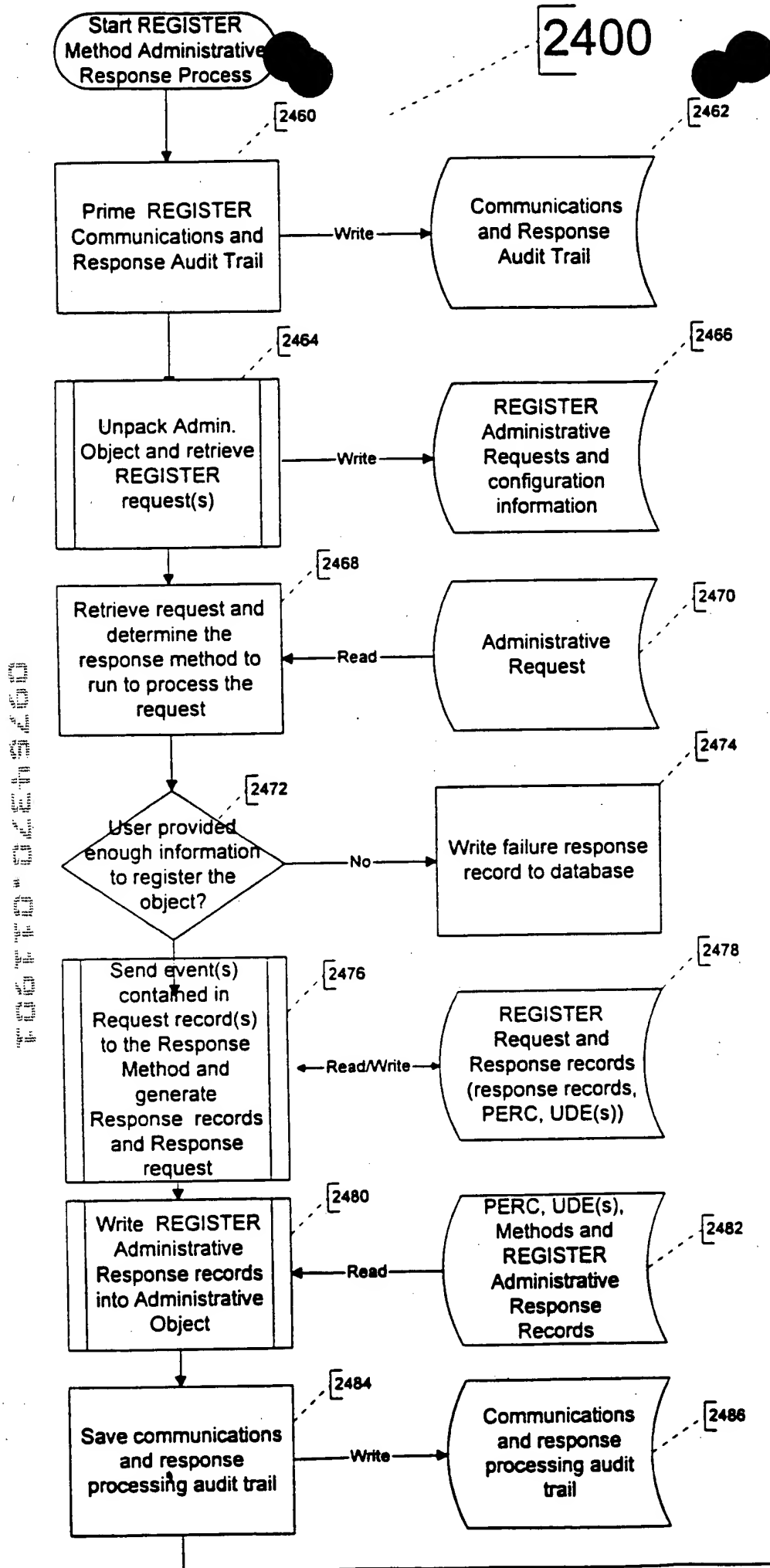


Figure 43c

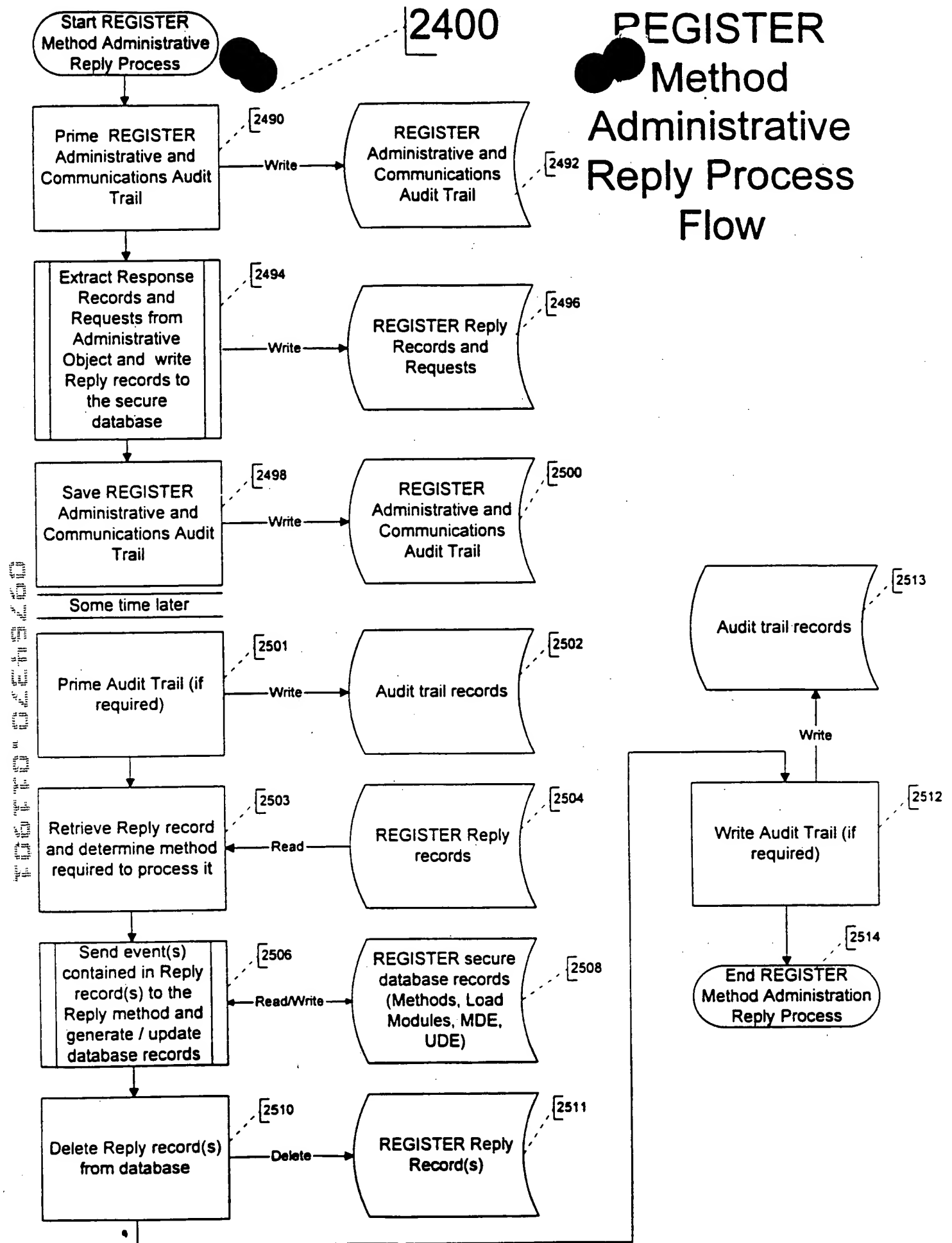
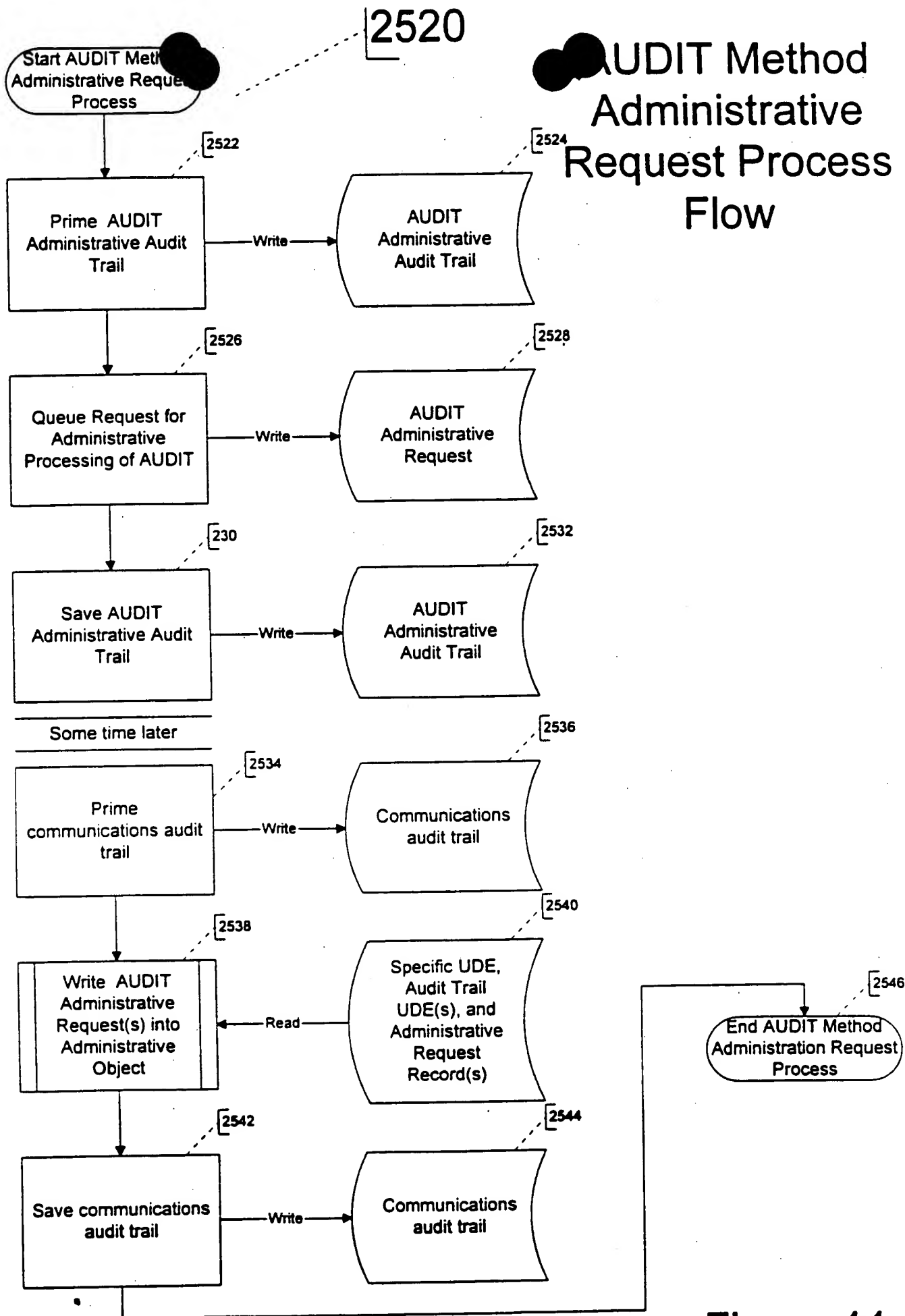


Figure 43d



**Figure 44a**

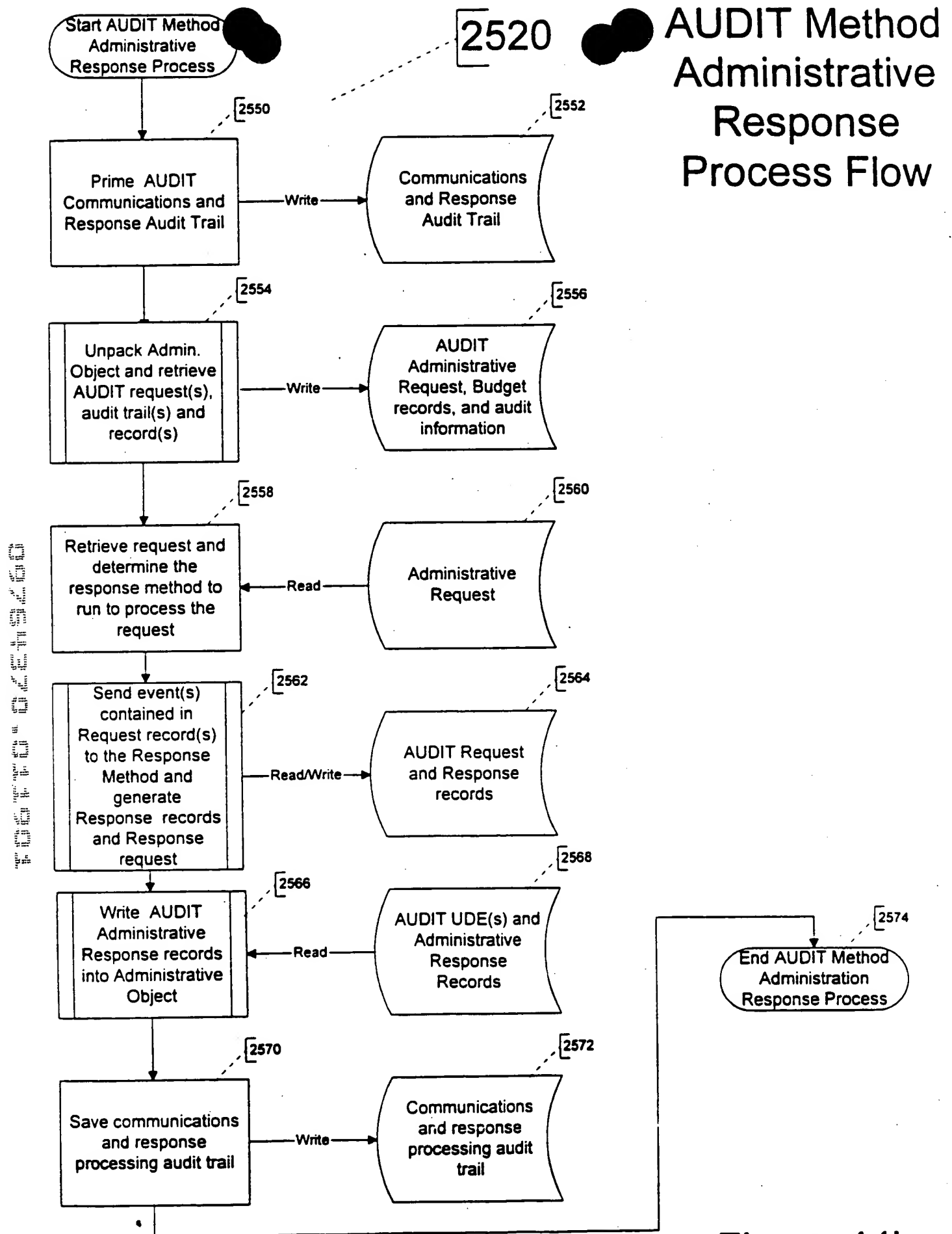


Figure 44b



# AUDIT Method Administrative Reply Process Flow

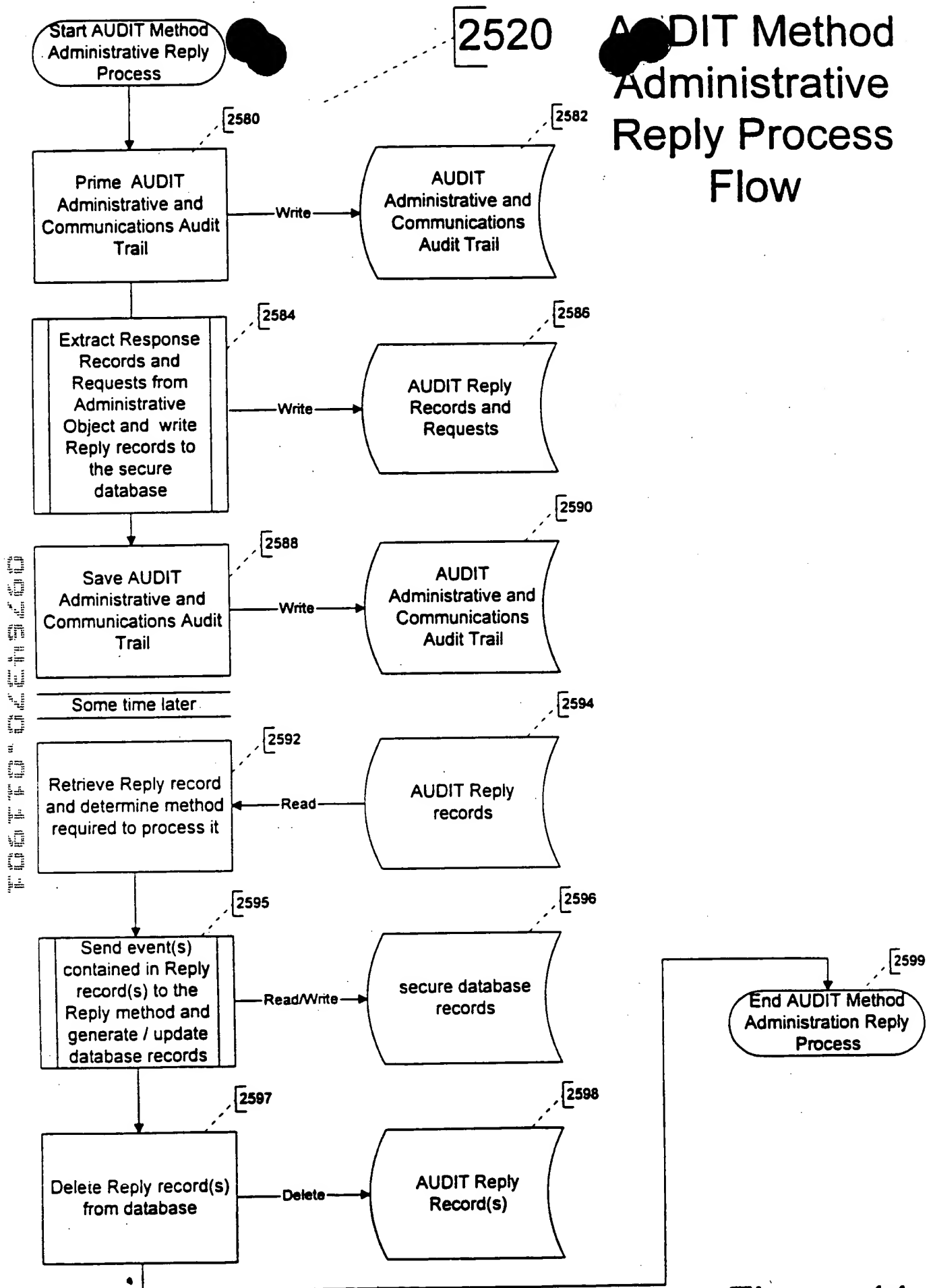


Figure 44c

FIG. 45

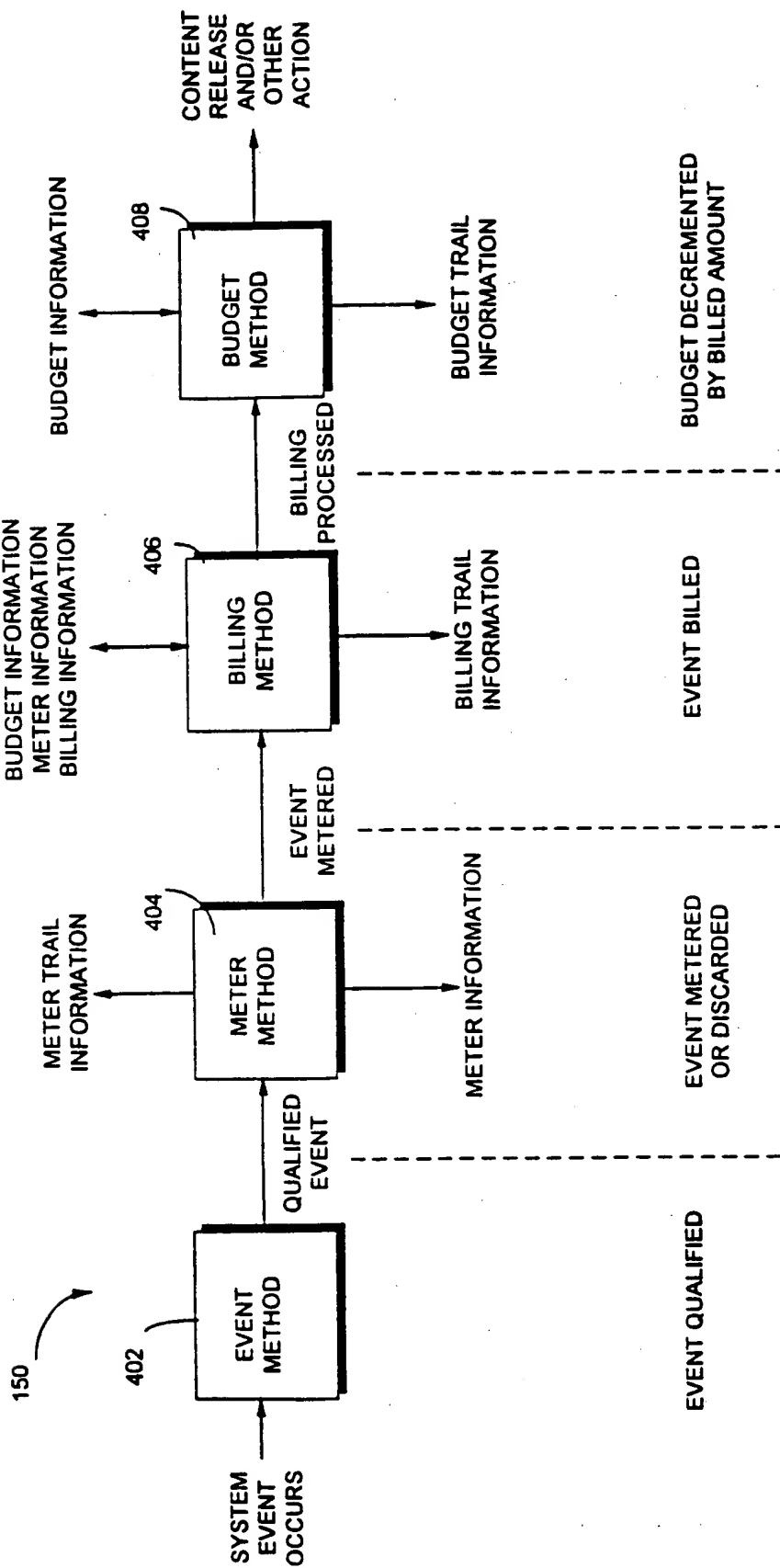


FIG. 46

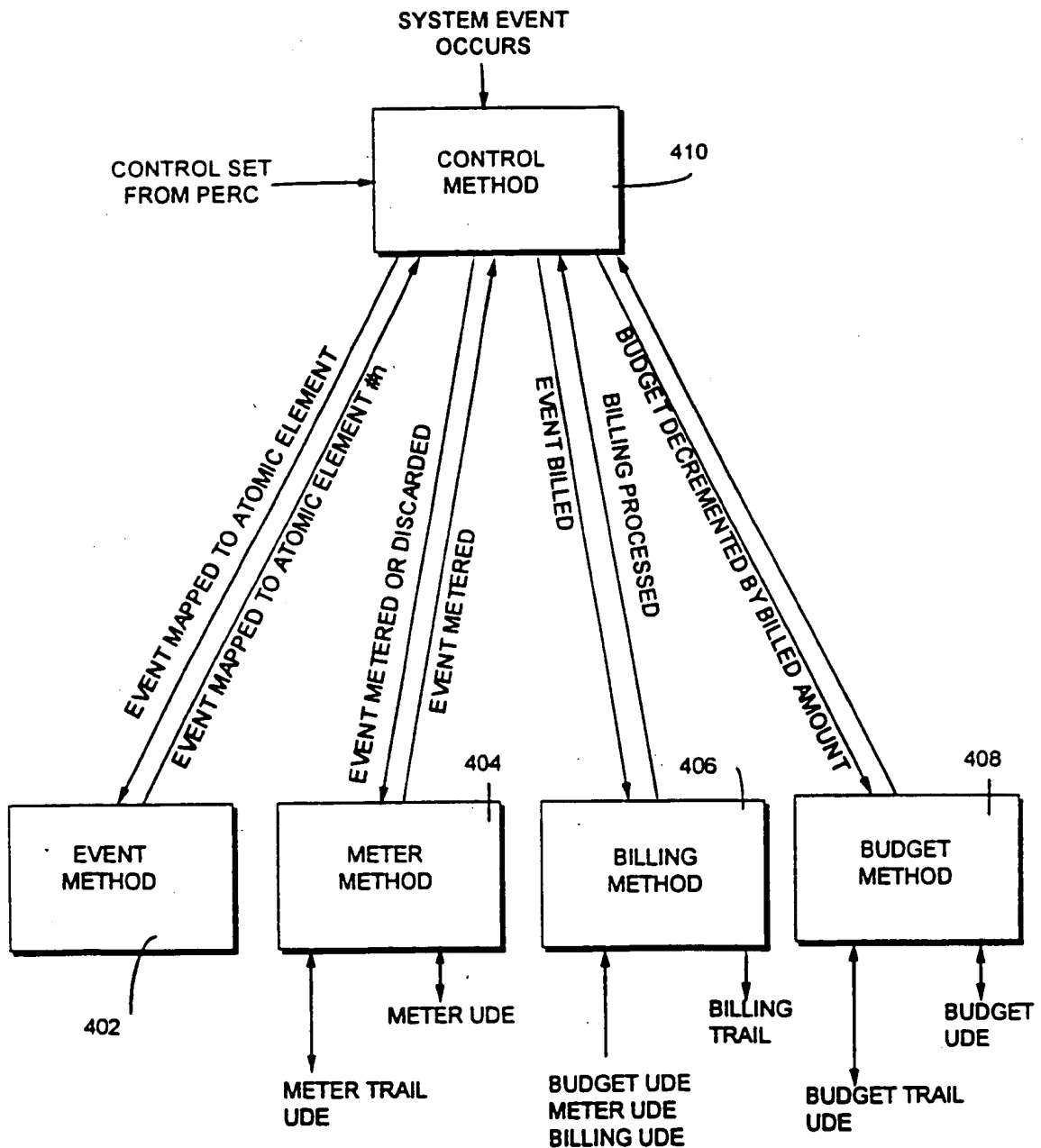
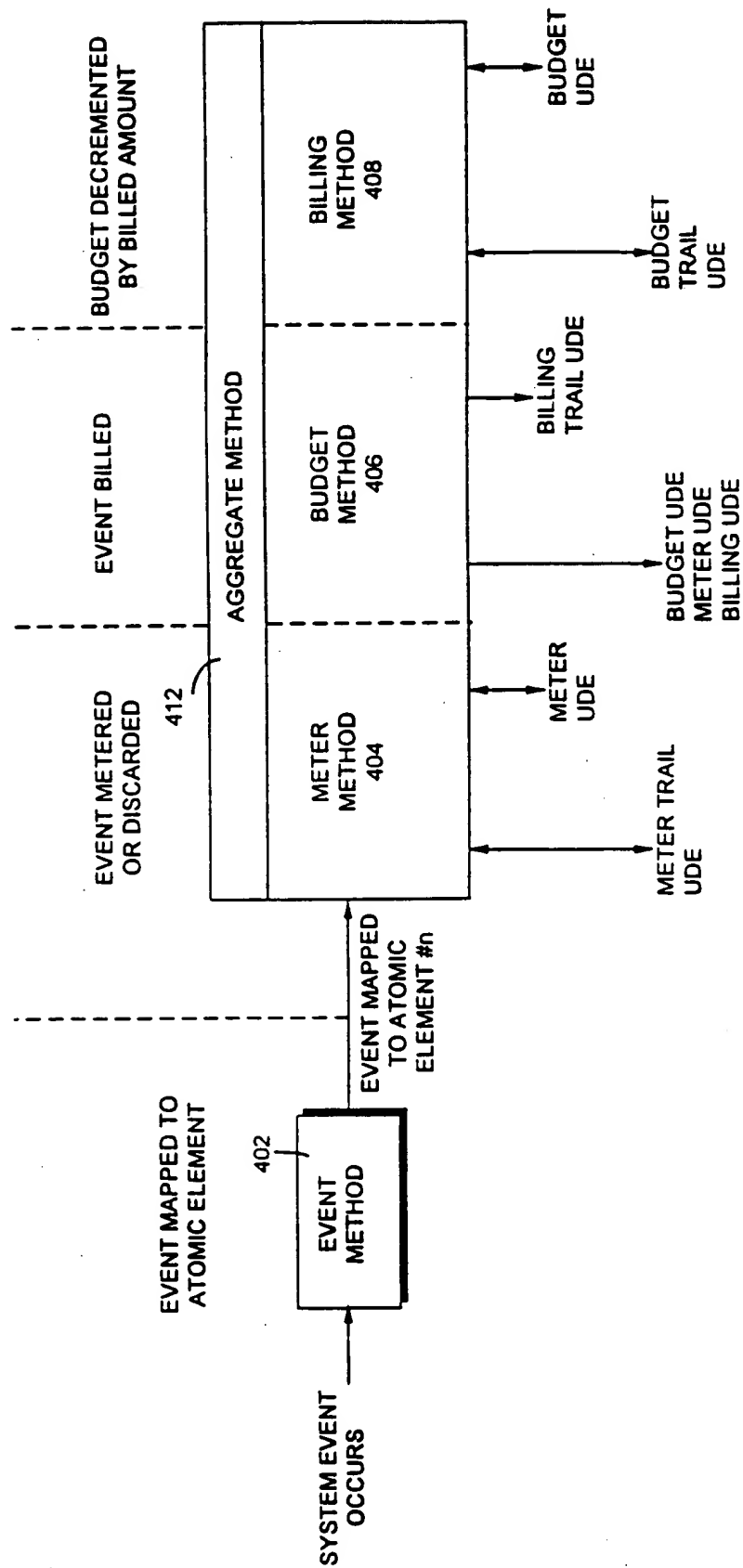


FIG. 47



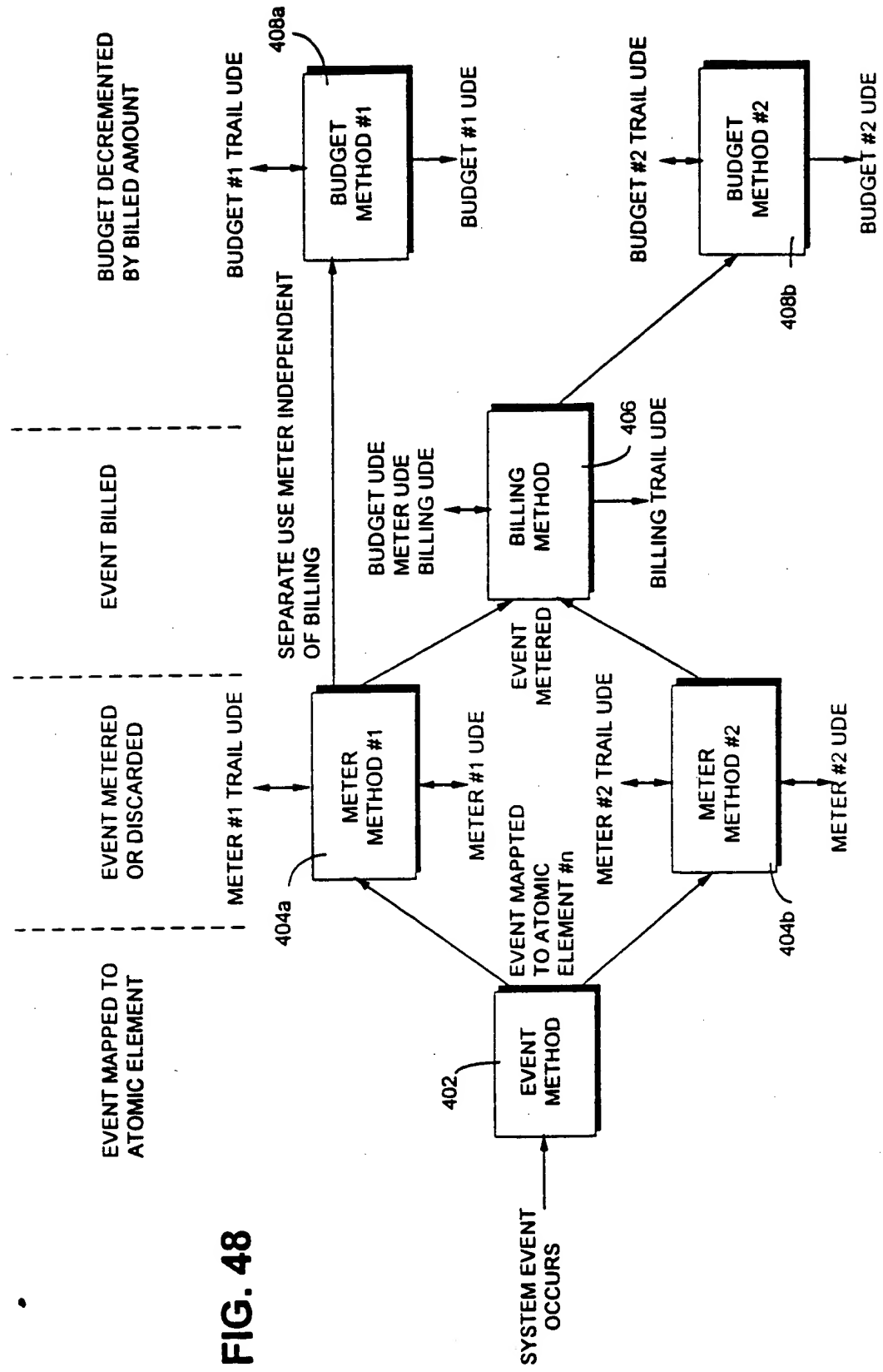


FIG. 48

# OPEN Method Use Process Flow

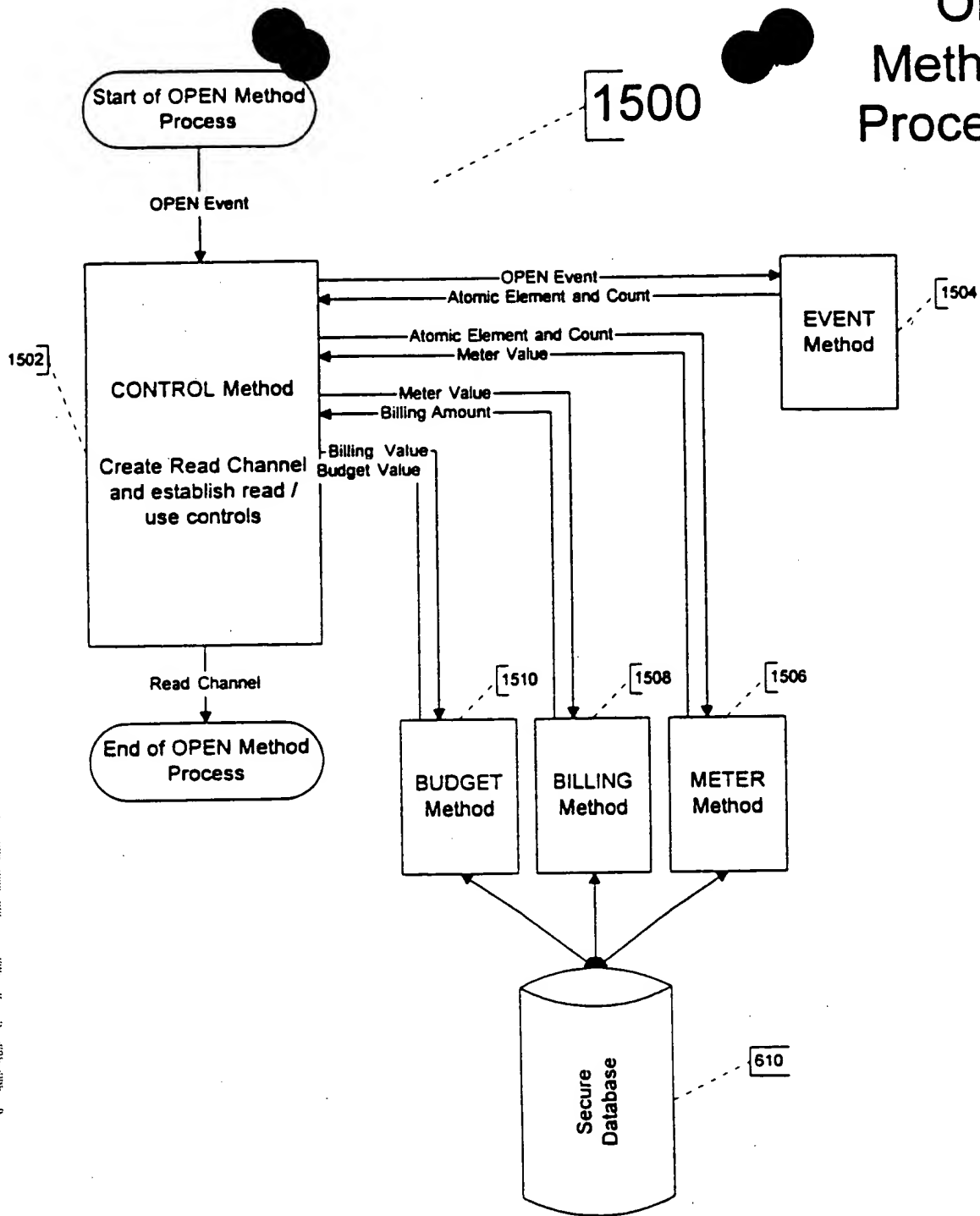


Figure 49

1500

Start of OPEN Method  
Process

1502

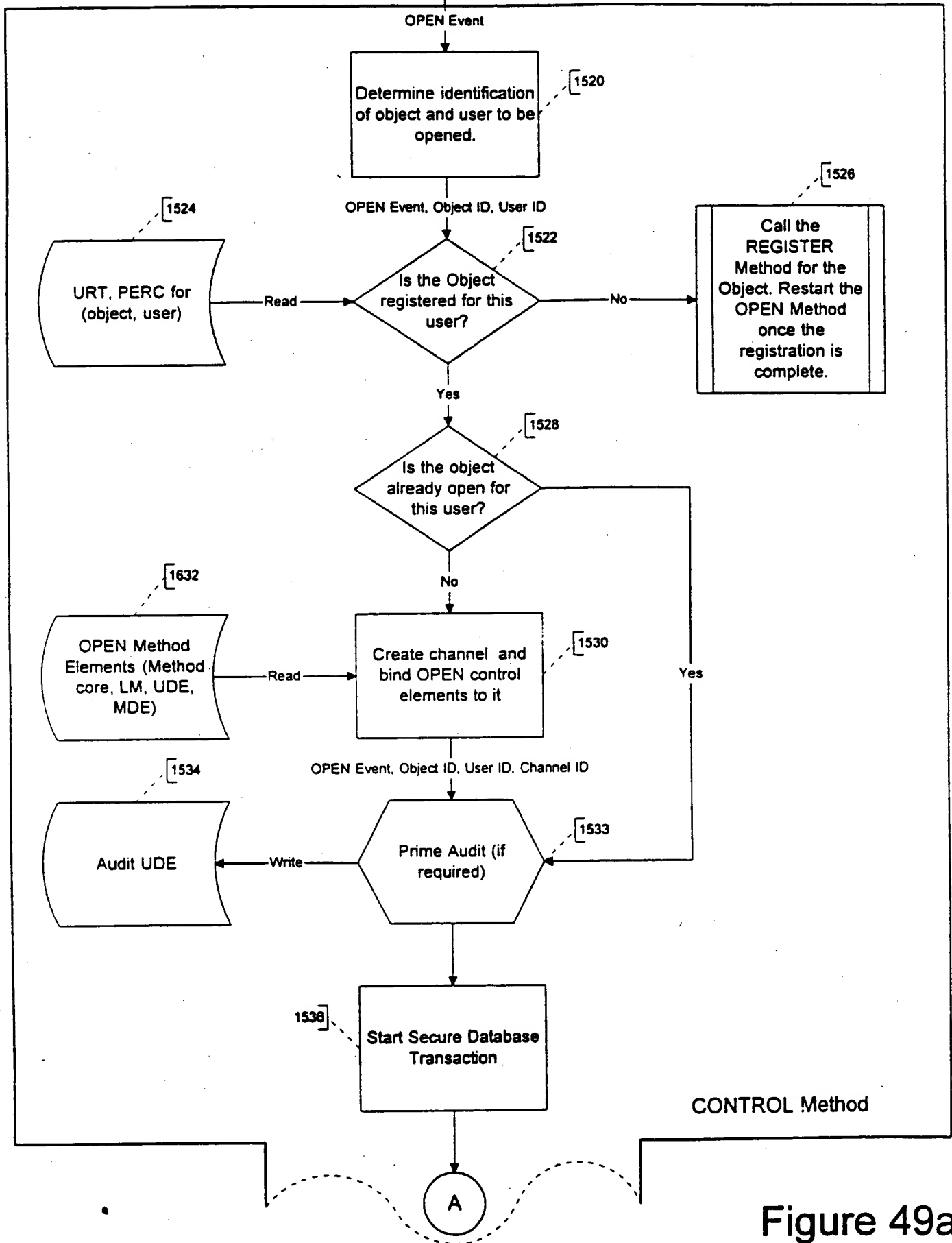


Figure 49a

Approved for Release

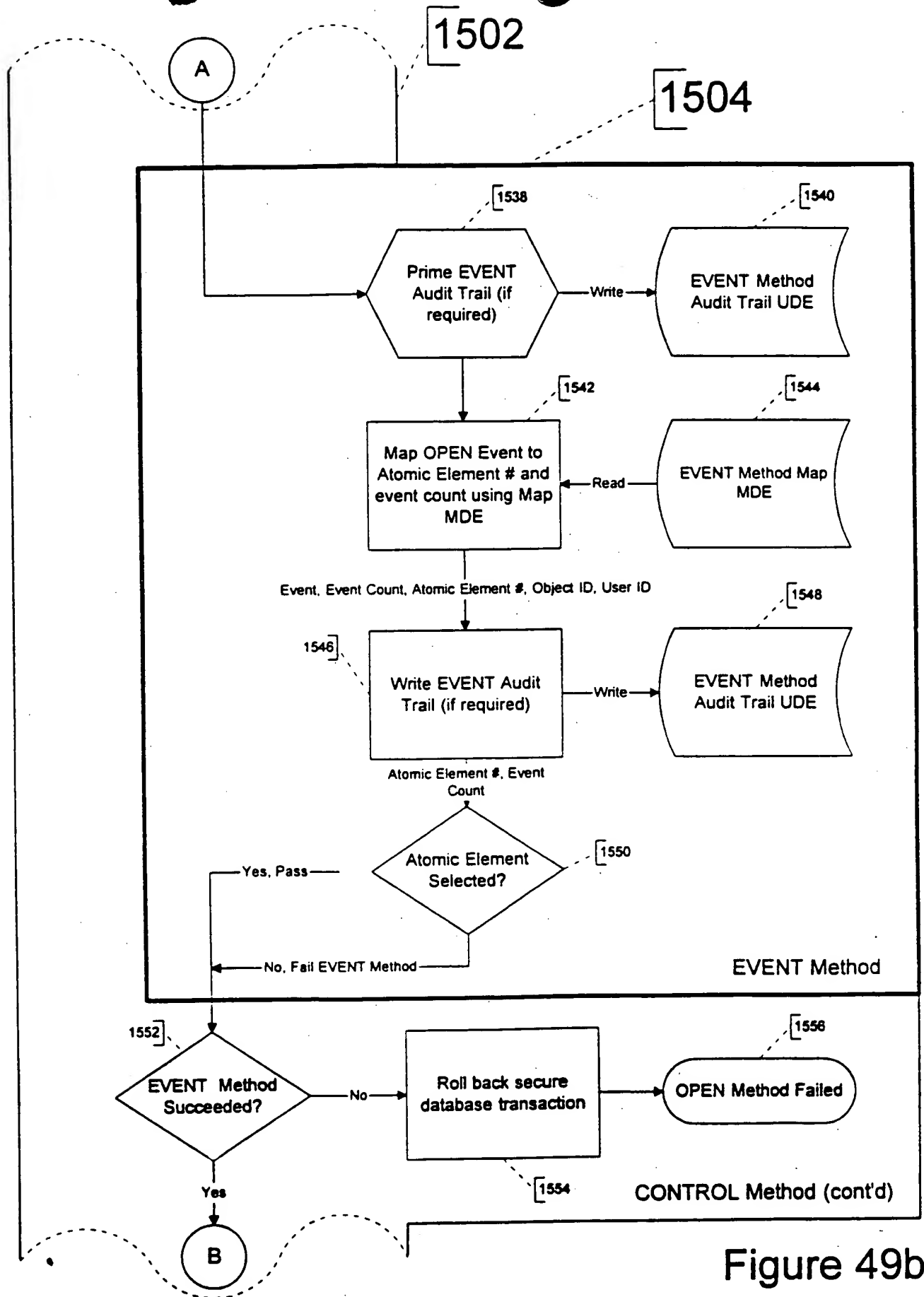


Figure 49b



2025 RELEASE UNDER E.O. 14176

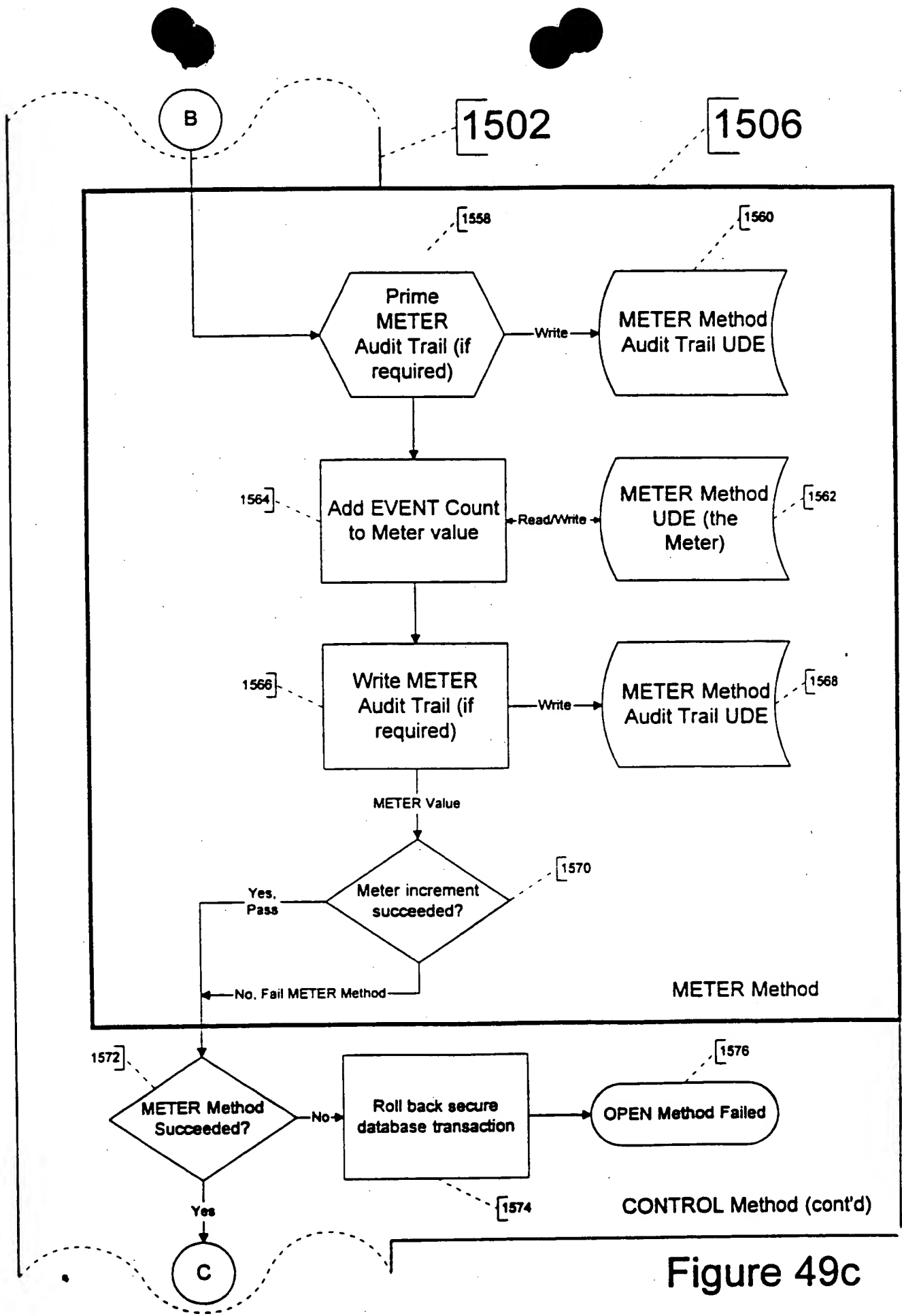


Figure 49c

1508 1578 1580 1582 1584 1586 1588 1590 1592 1594 1596

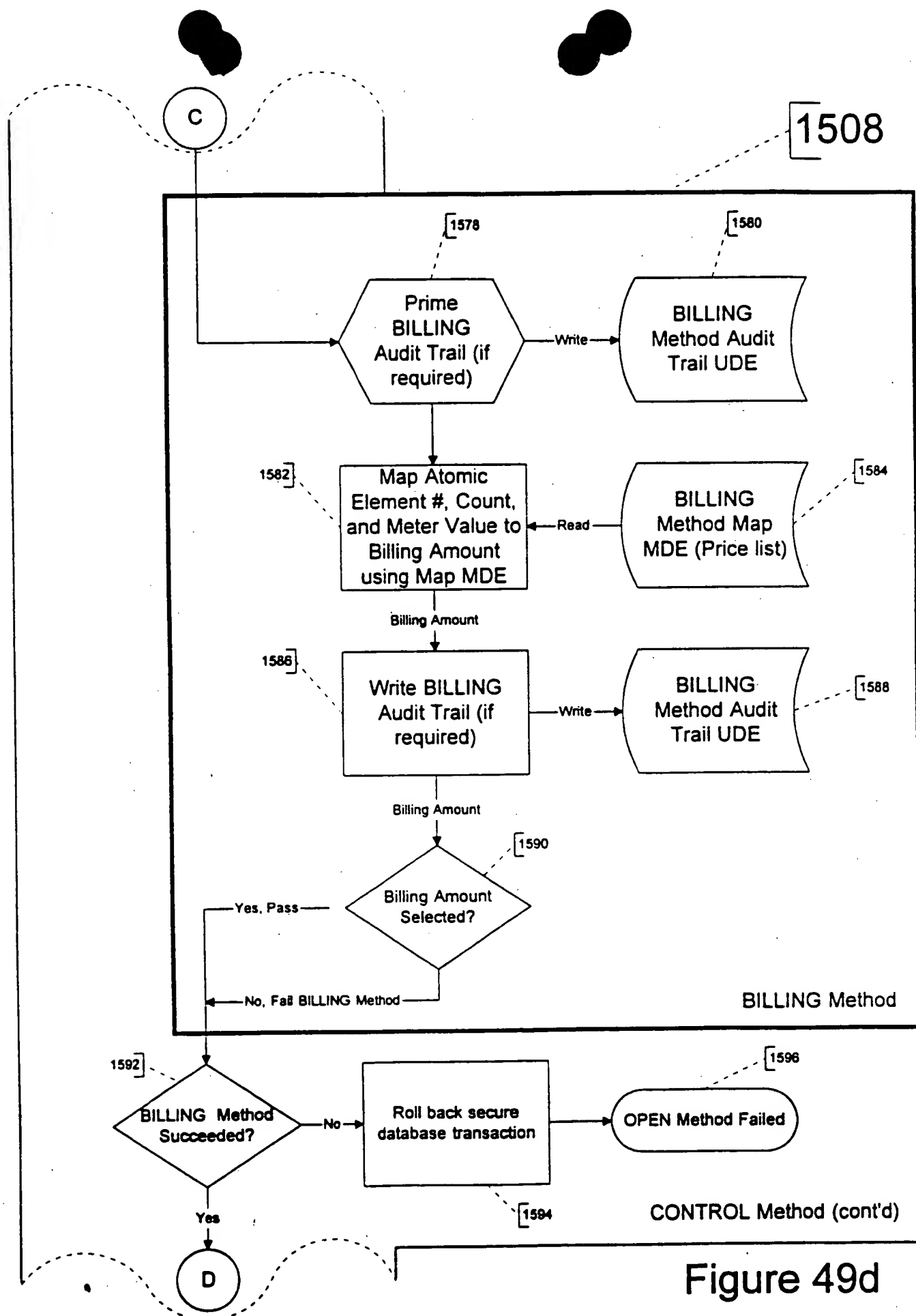
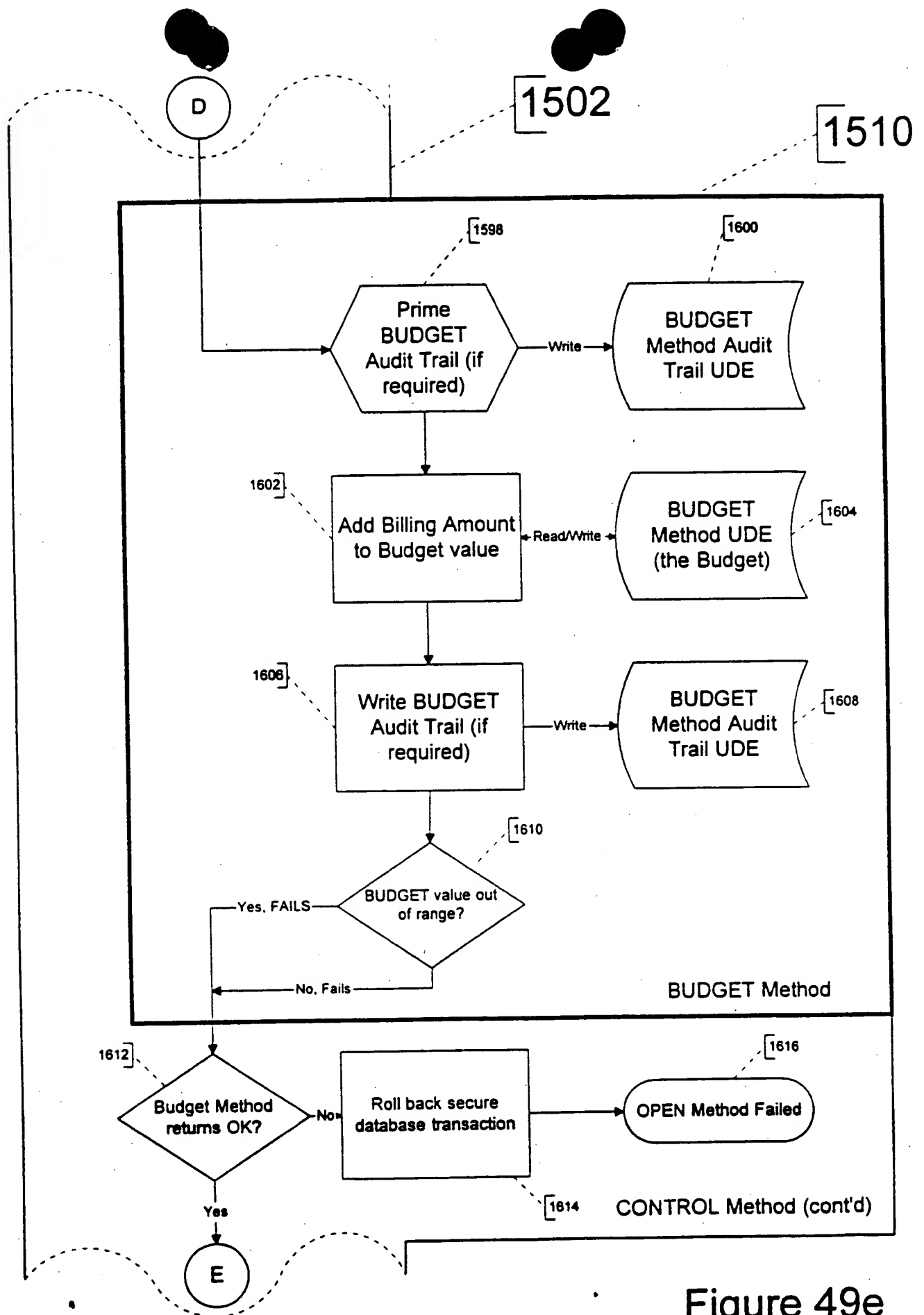


Figure 49d



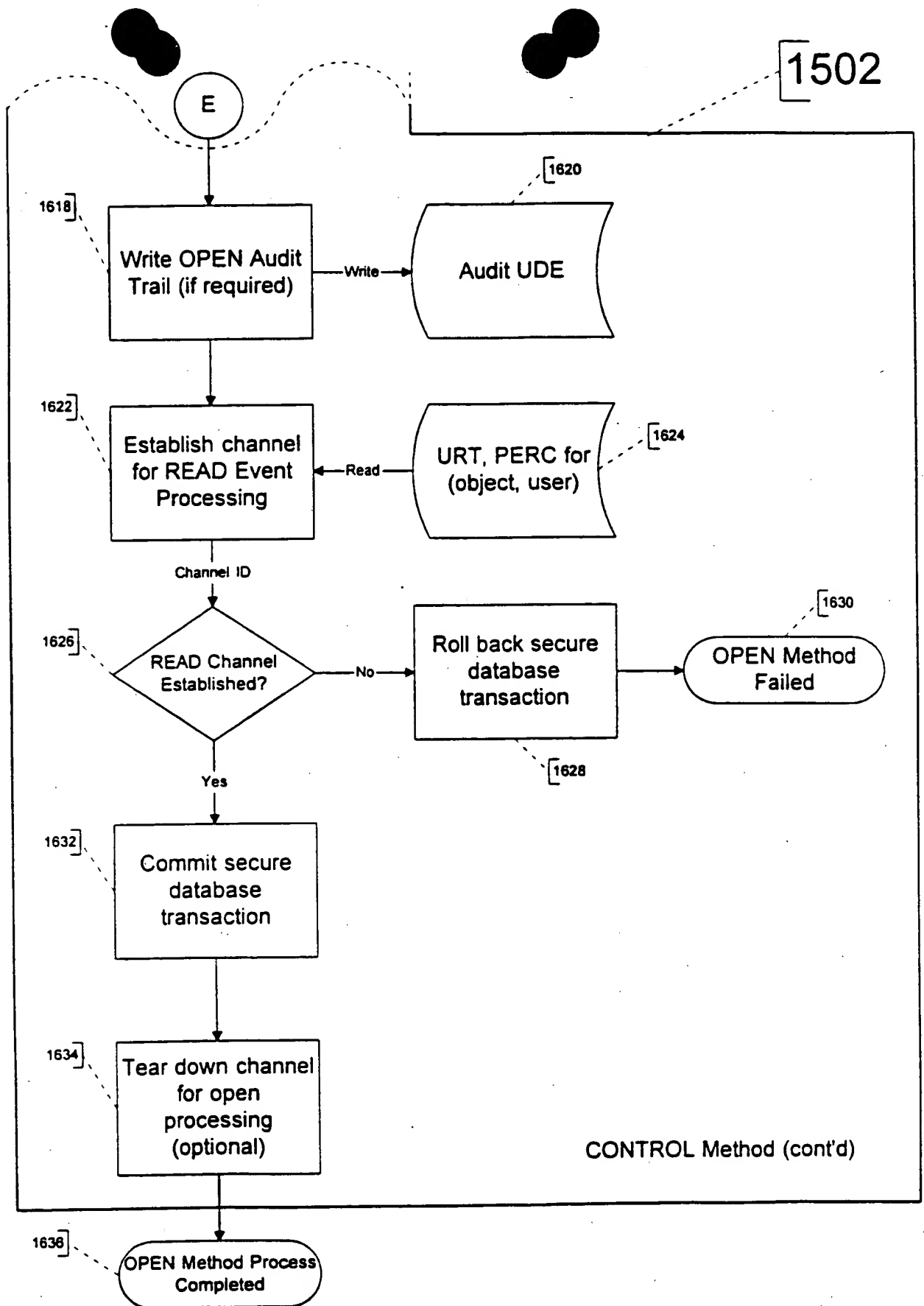


Figure 49f

# READ Method Use Process Flow

1650

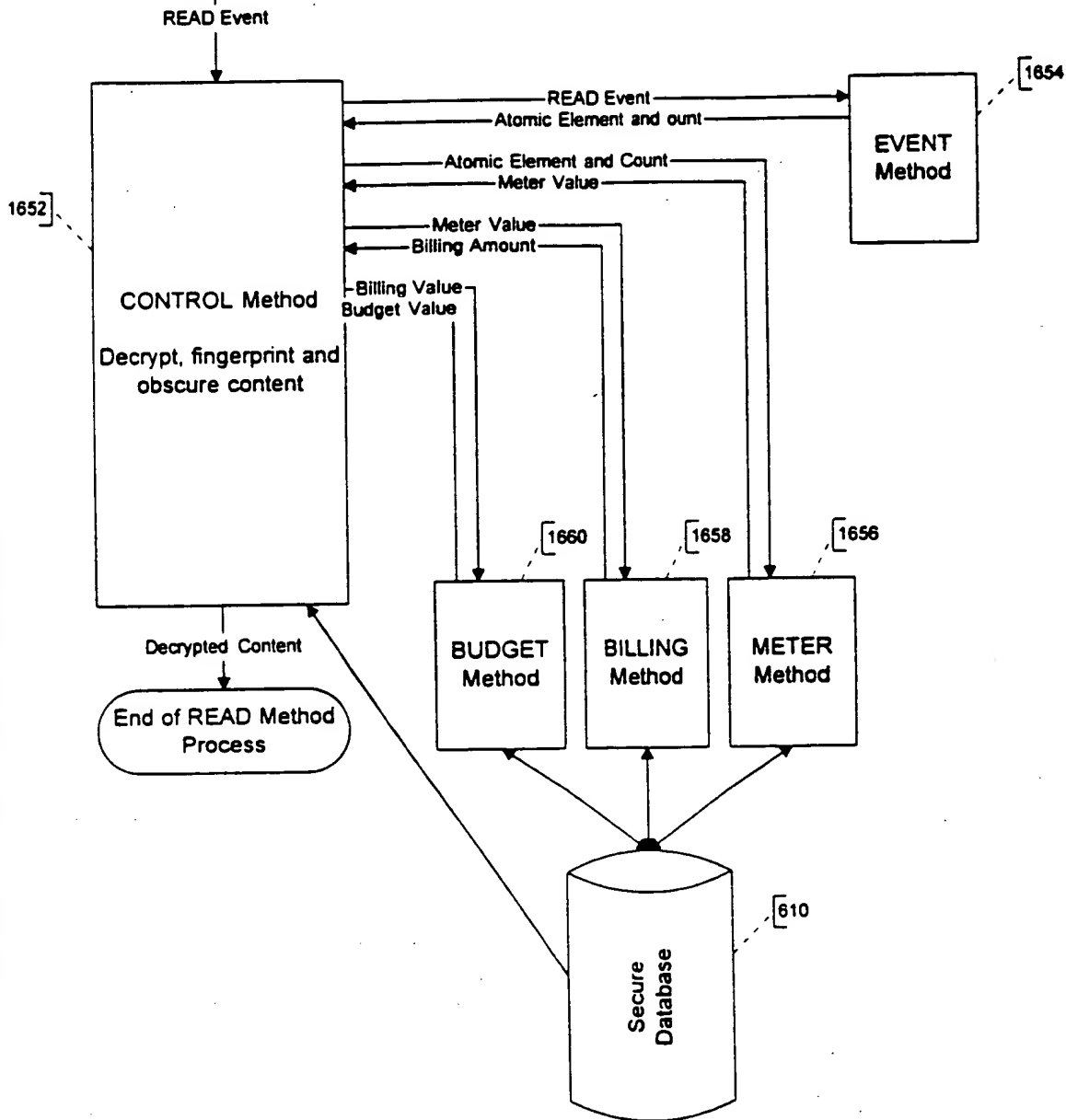


Figure 50

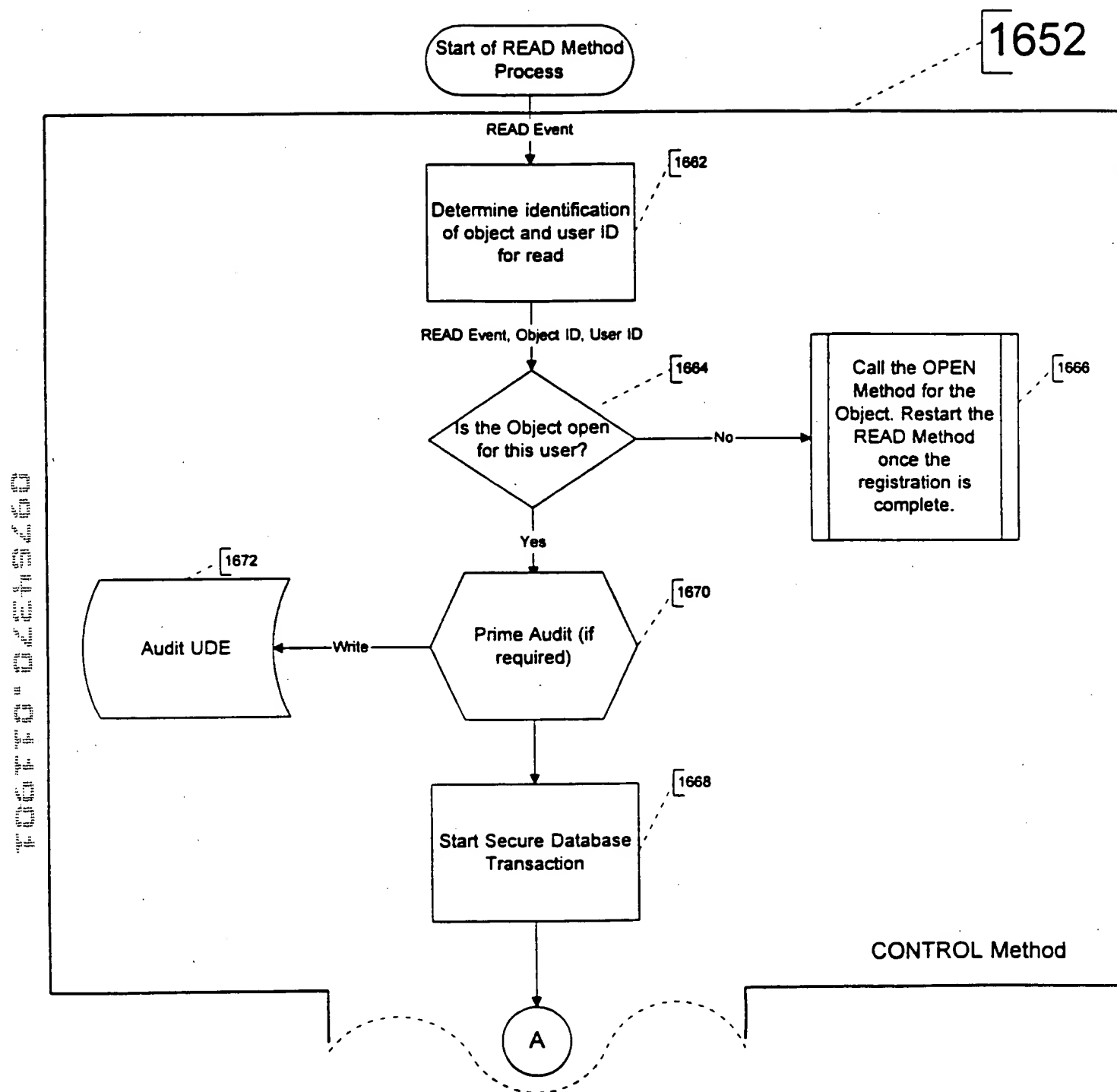


Figure 50a

Approved for Release

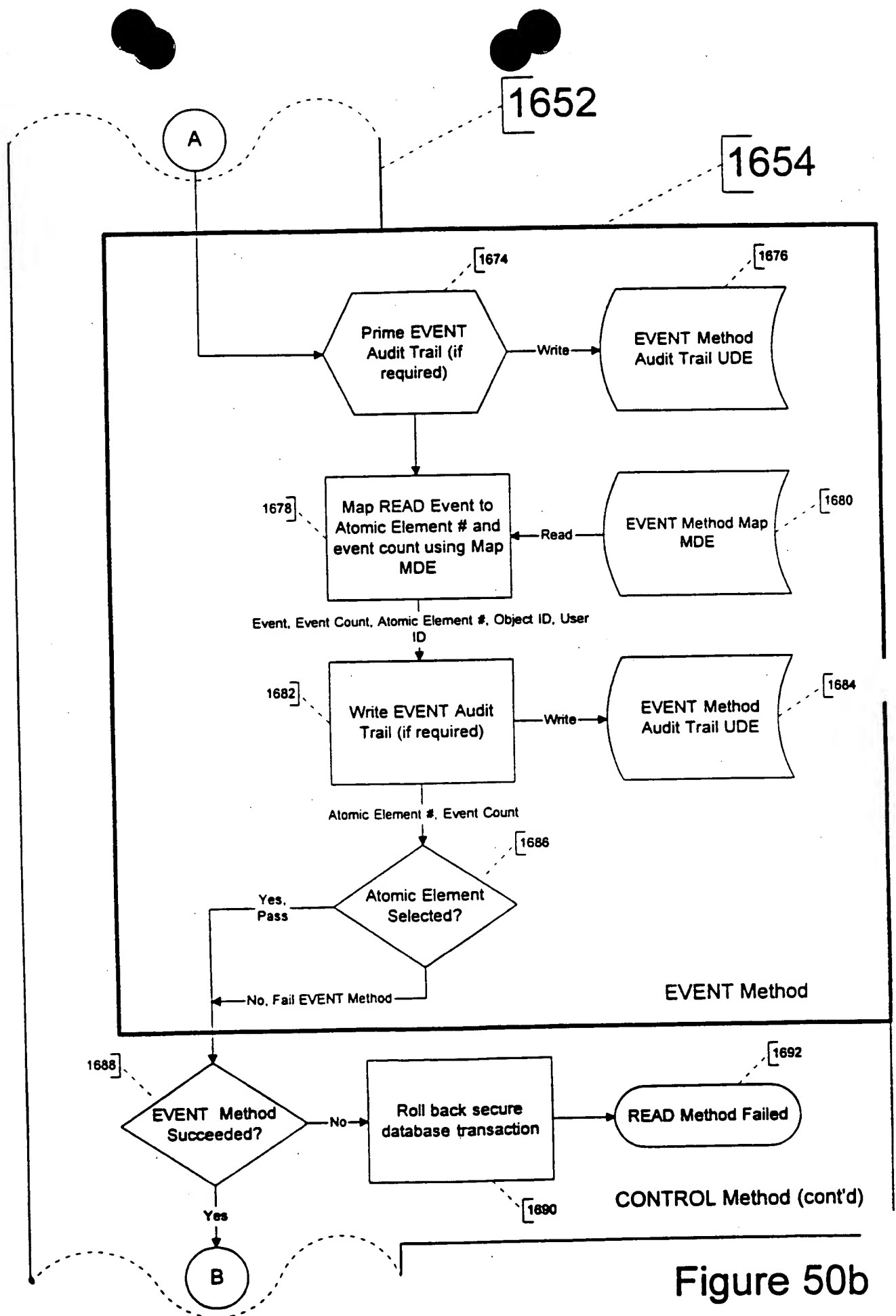


Figure 50b

1652 1656 1694 1698 1700 1702 1704 1706 1708 1710 1712

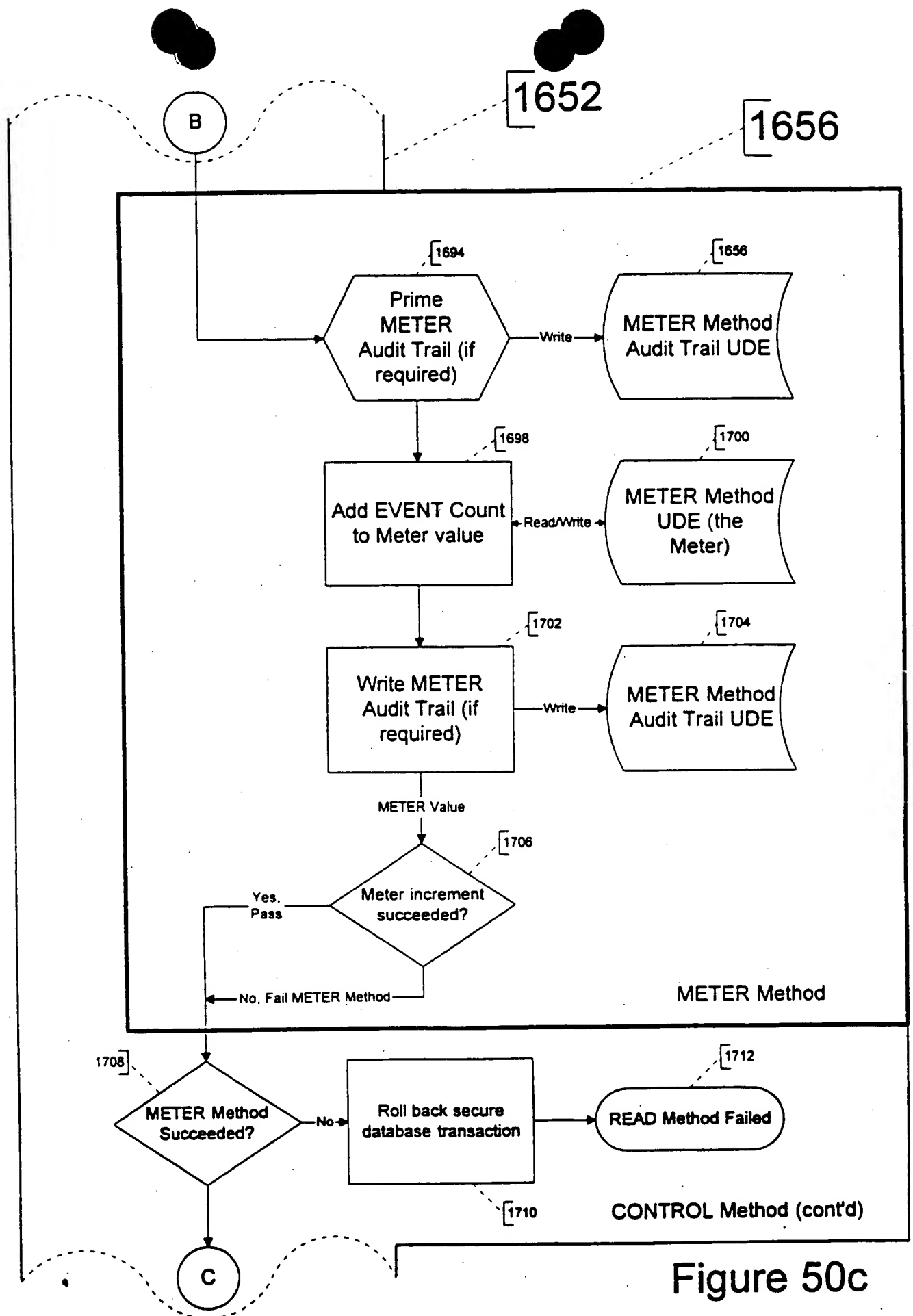


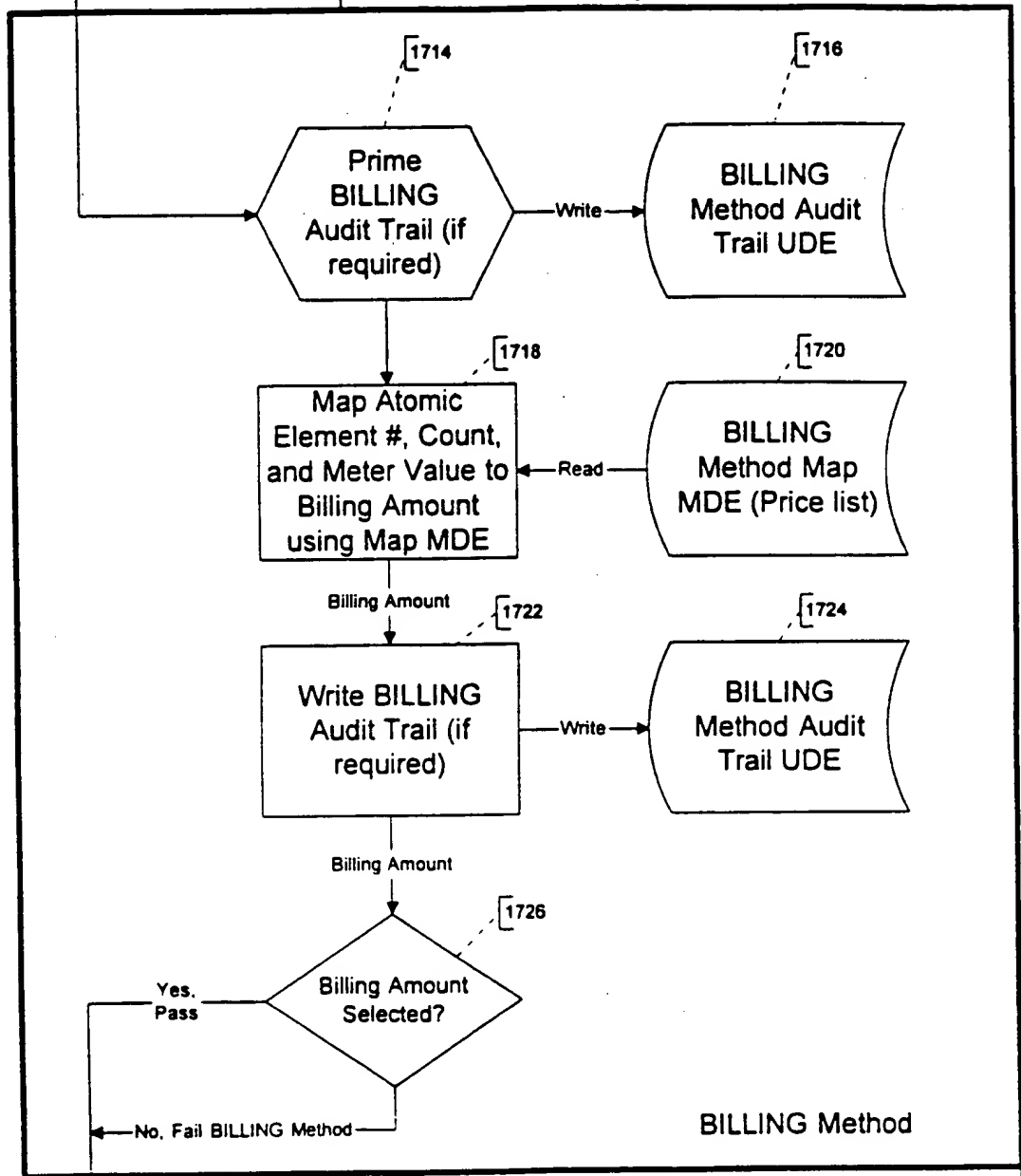
Figure 50c



1652

1658

C



1728

BILLING Method Succeeded?

No

Roll back secure database transaction

READ Method Failed

1732

1730

CONTROL Method (cont'd)

D

Figure 50d

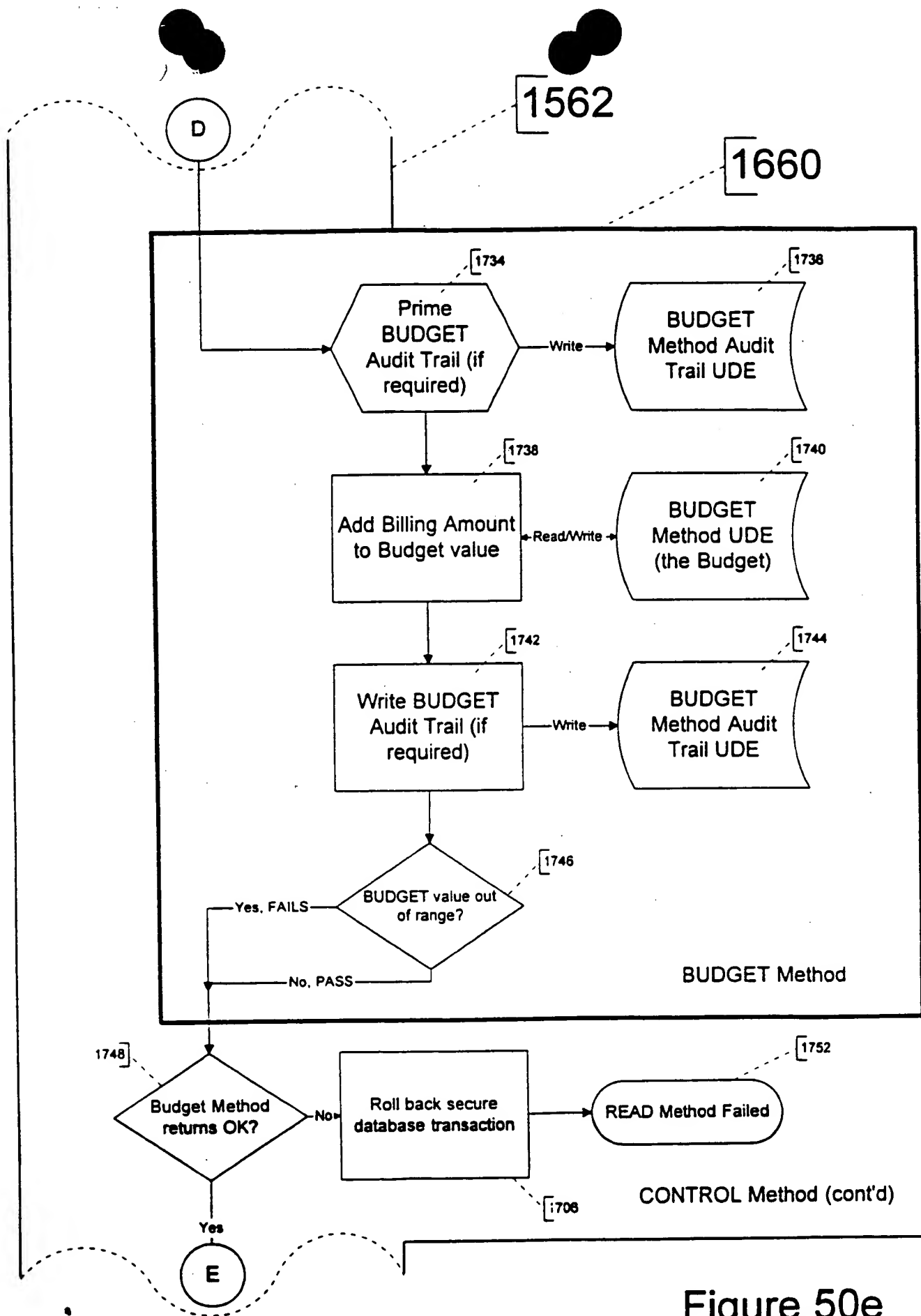
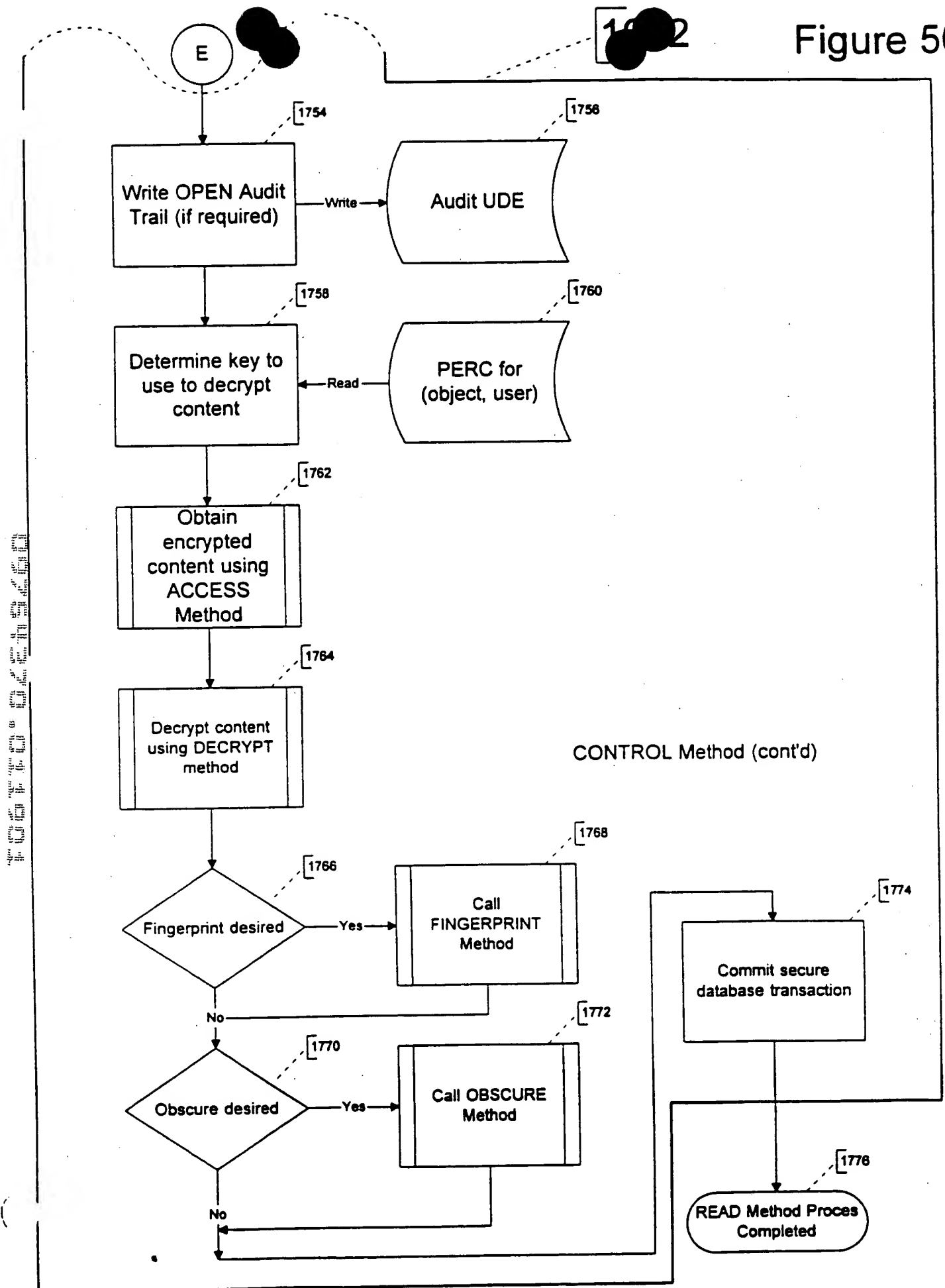


Figure 50e

Figure 50f



# WRITE Method Use Process Flow

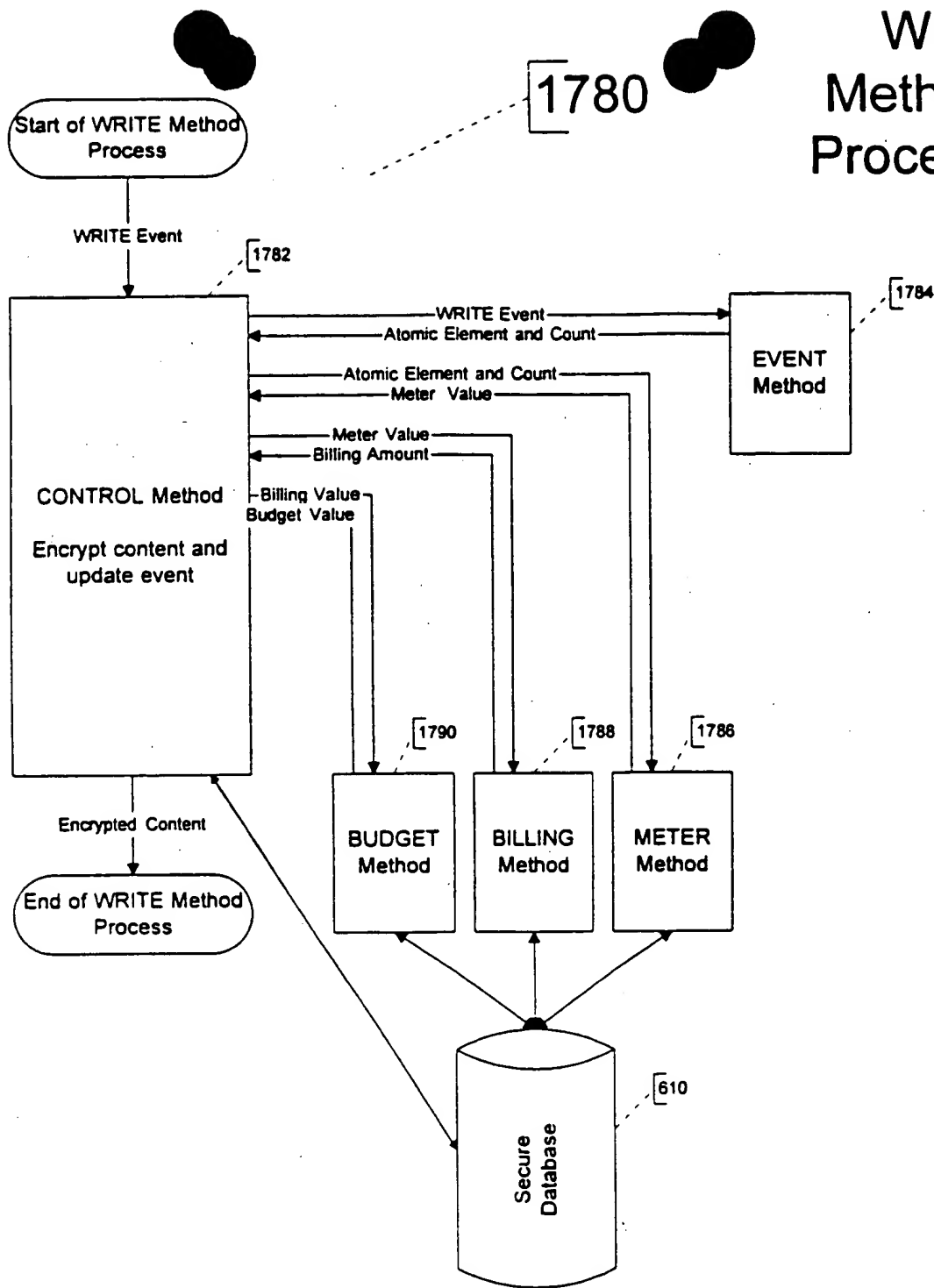


Figure 51

1780

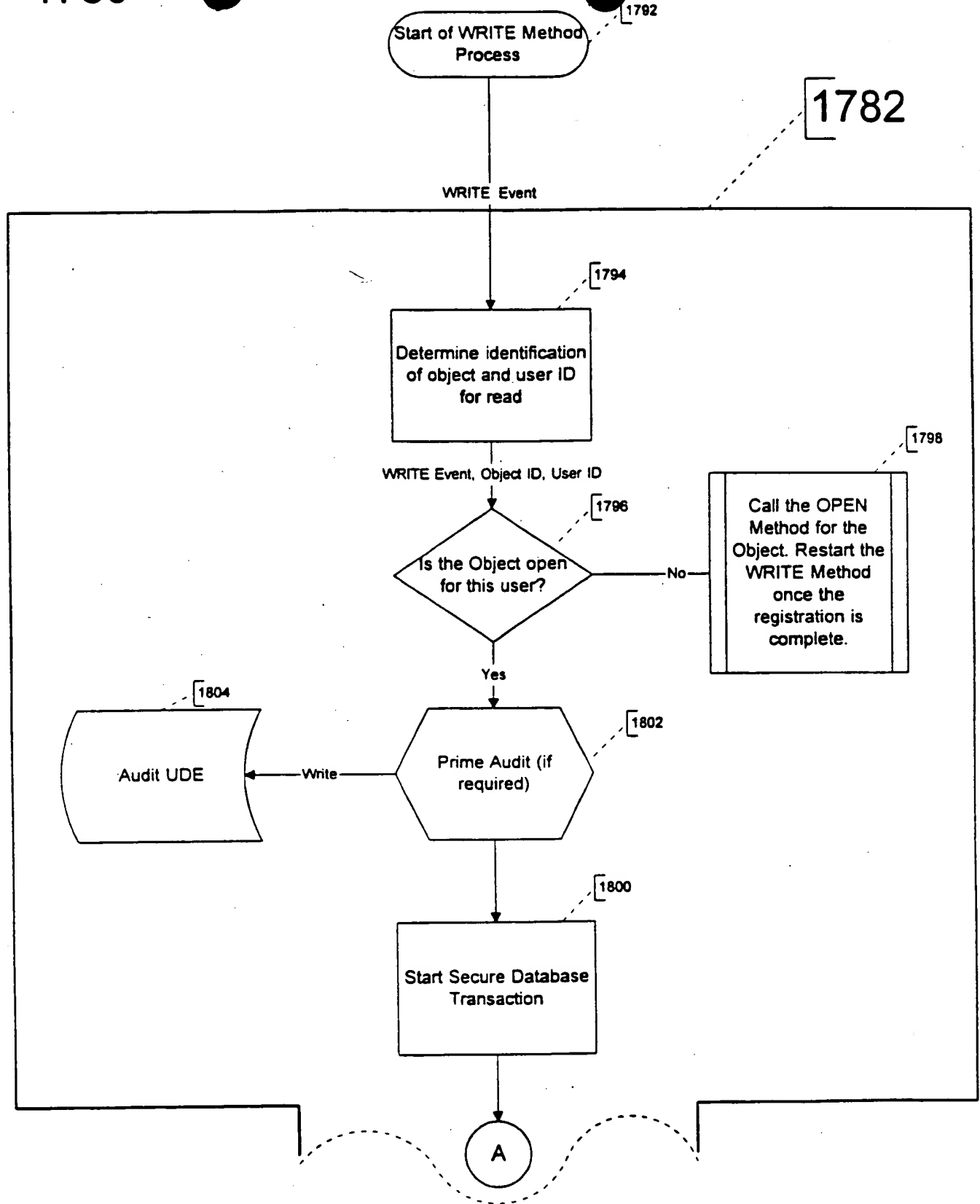


Figure 51a

1782 1784 1806 1808 1810 1812 1814 1816 1818 1820 1822 1824 1826

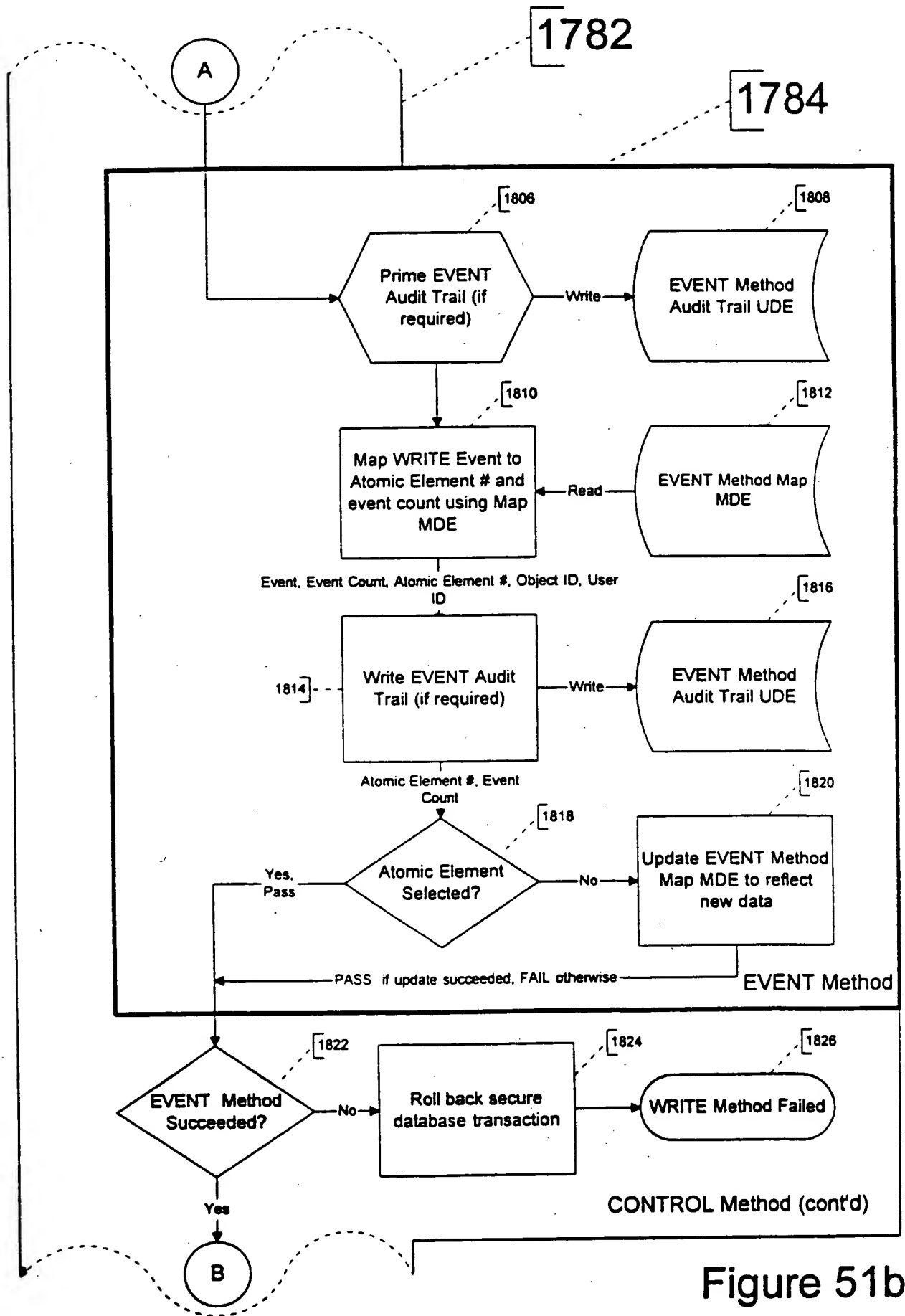


Figure 51b

TOP SECRET

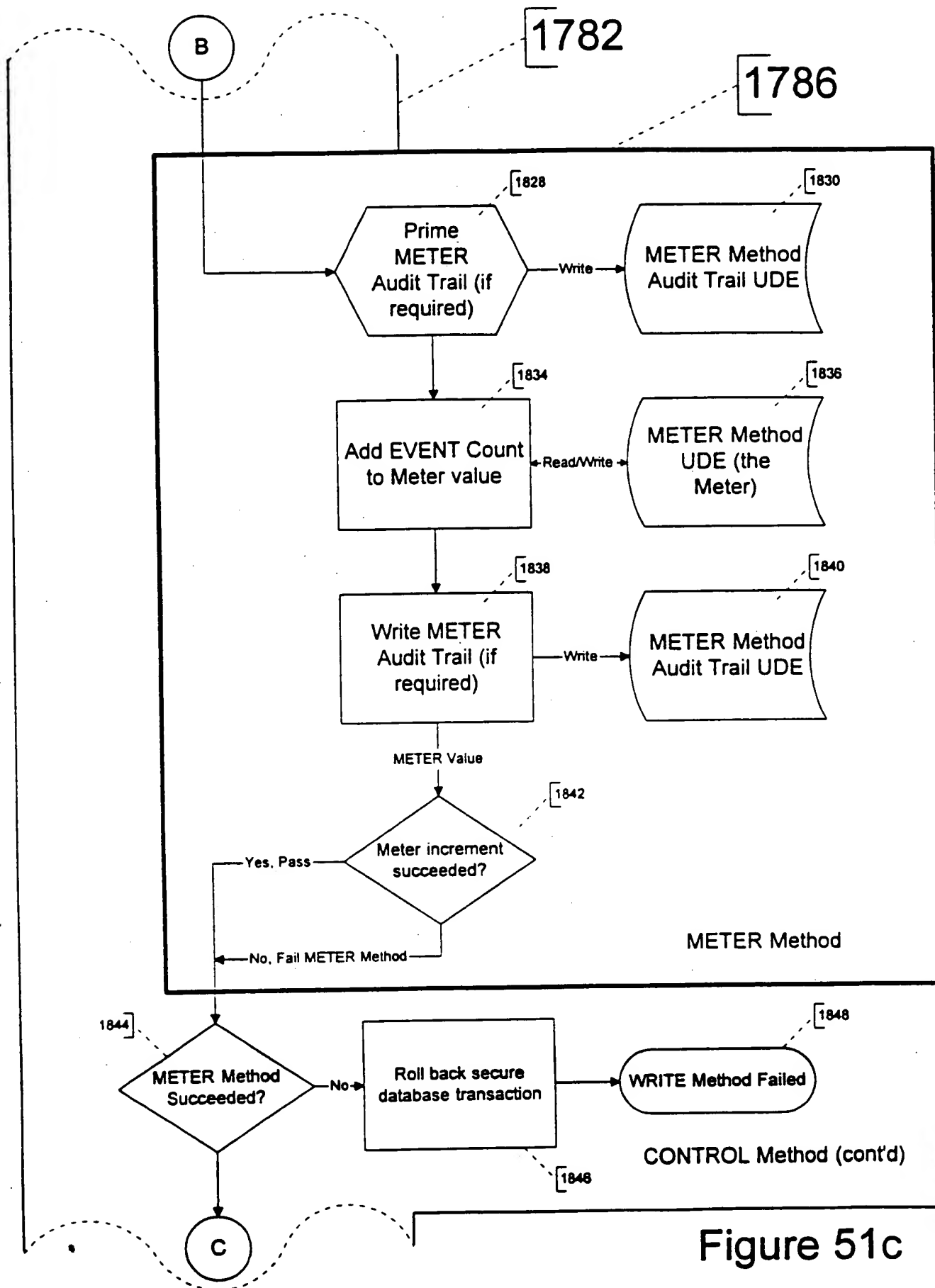


Figure 51c

TOP SECRET

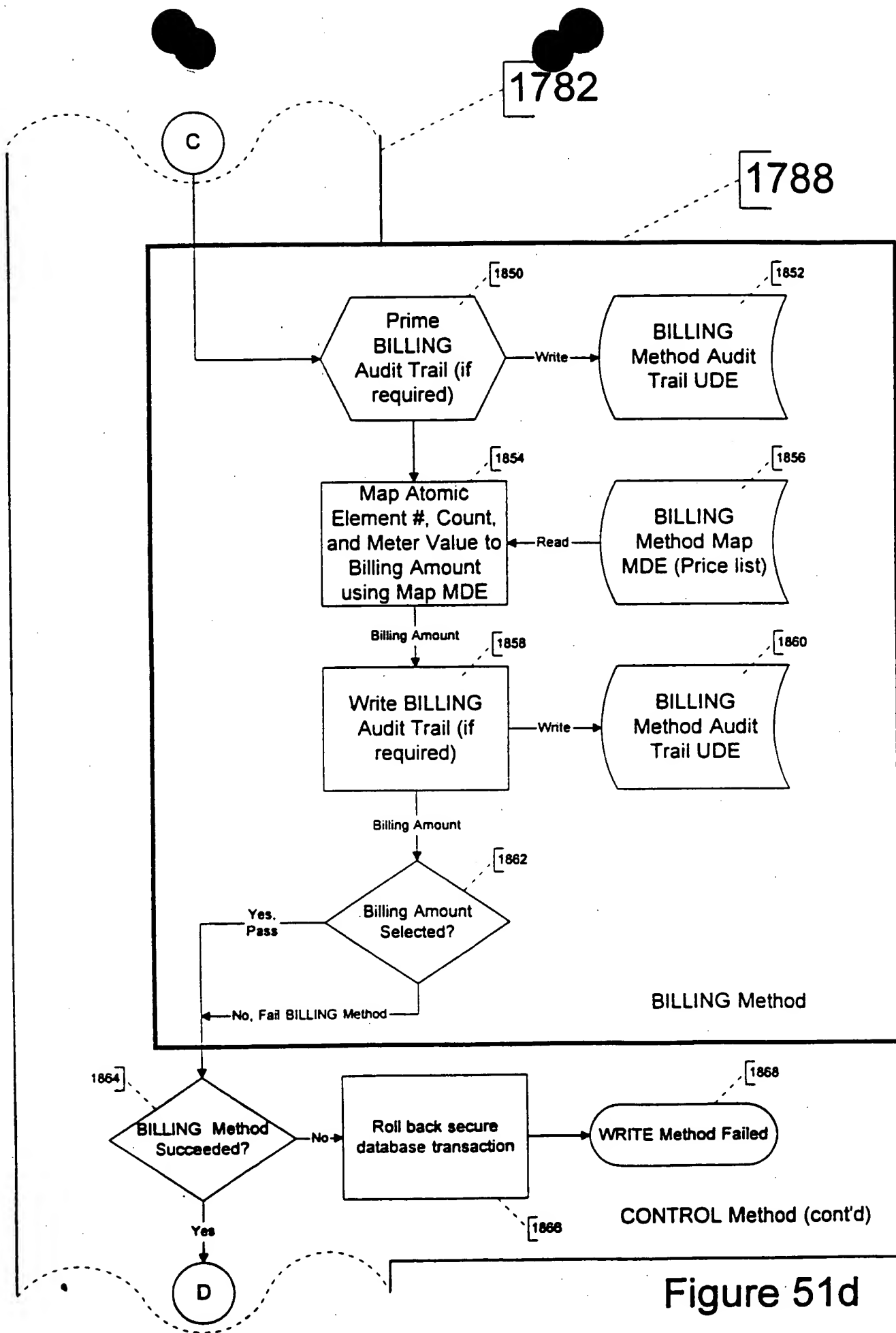


Figure 51d



1782 1790 1870 1872 1874 1876 1878 1880 1882 1884 1886 1888

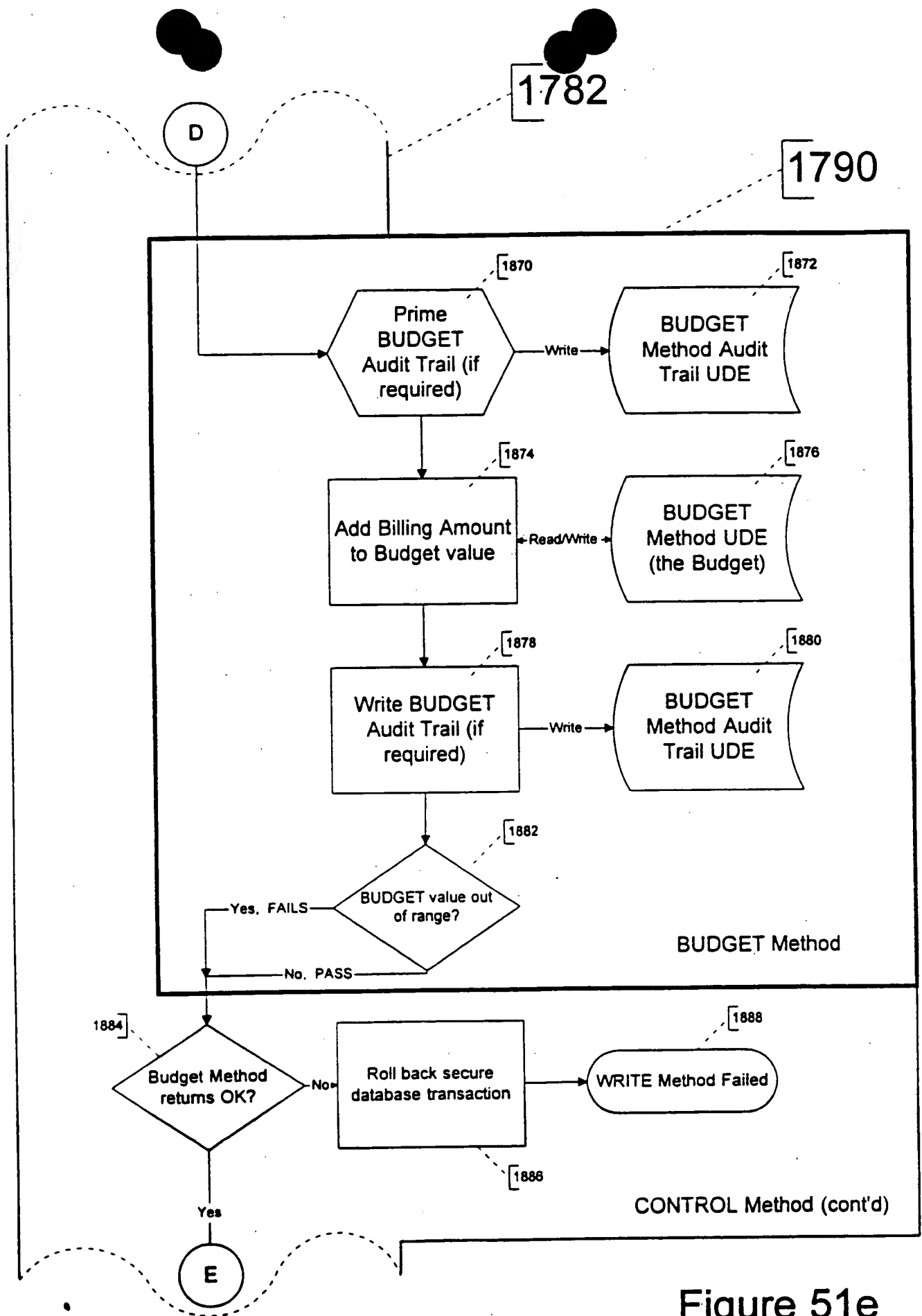


Figure 51e

1920

# CLOSE Method Process Flow

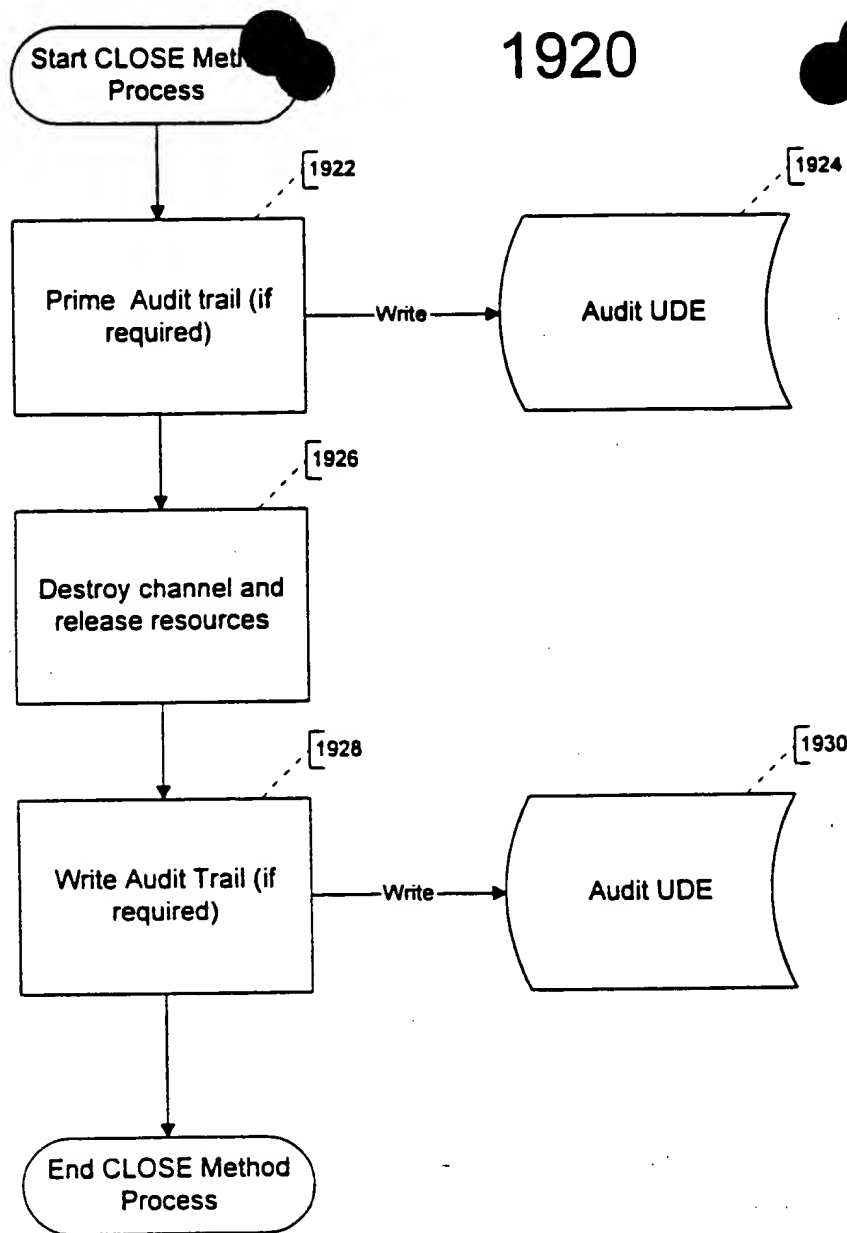


Figure 52

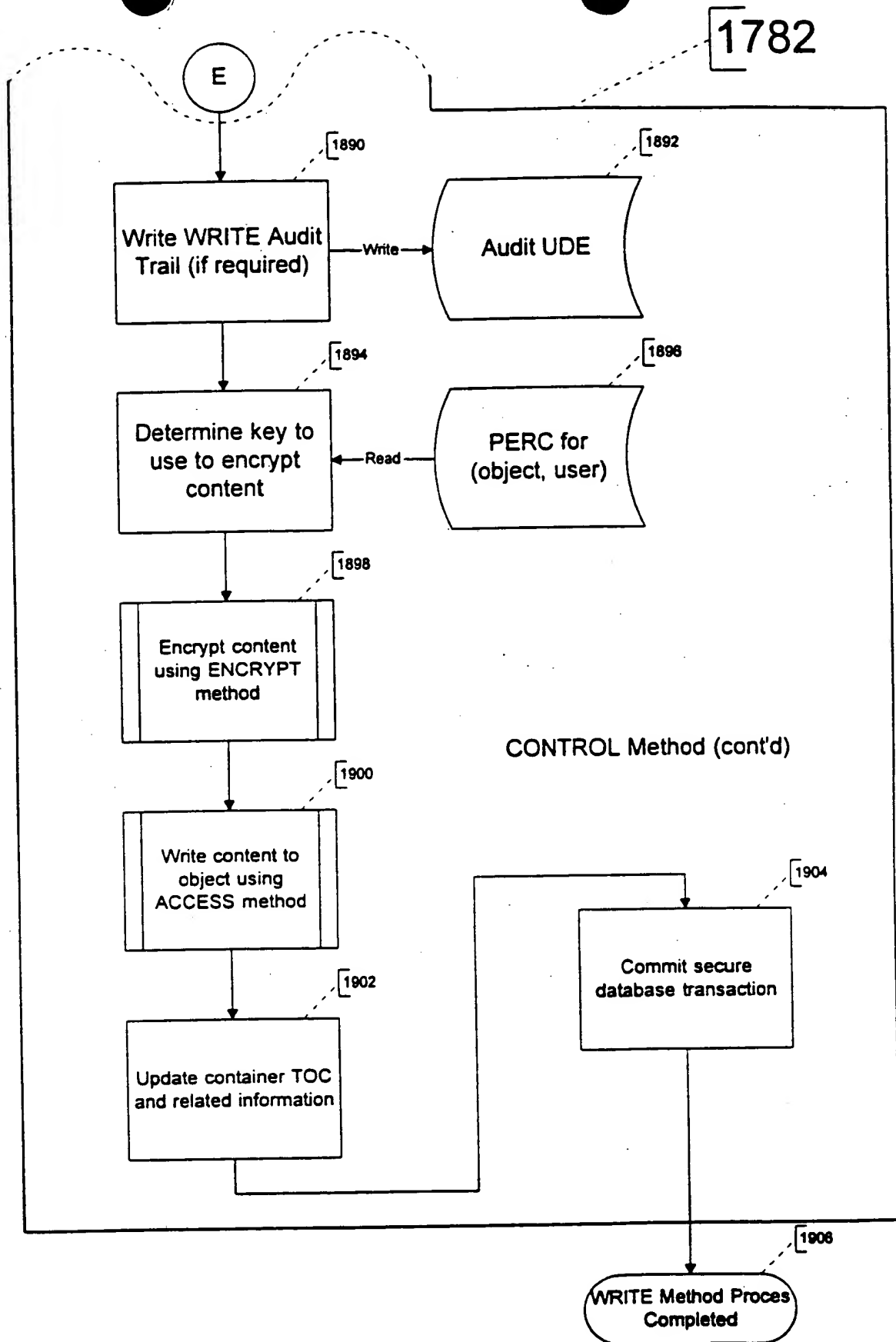
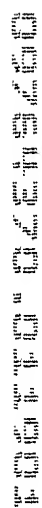


Figure 51f

**Figure 53b**



# EVENT Method Process Flows

1940

EVENT Method S

EVENT, Event Count, Event Parameters

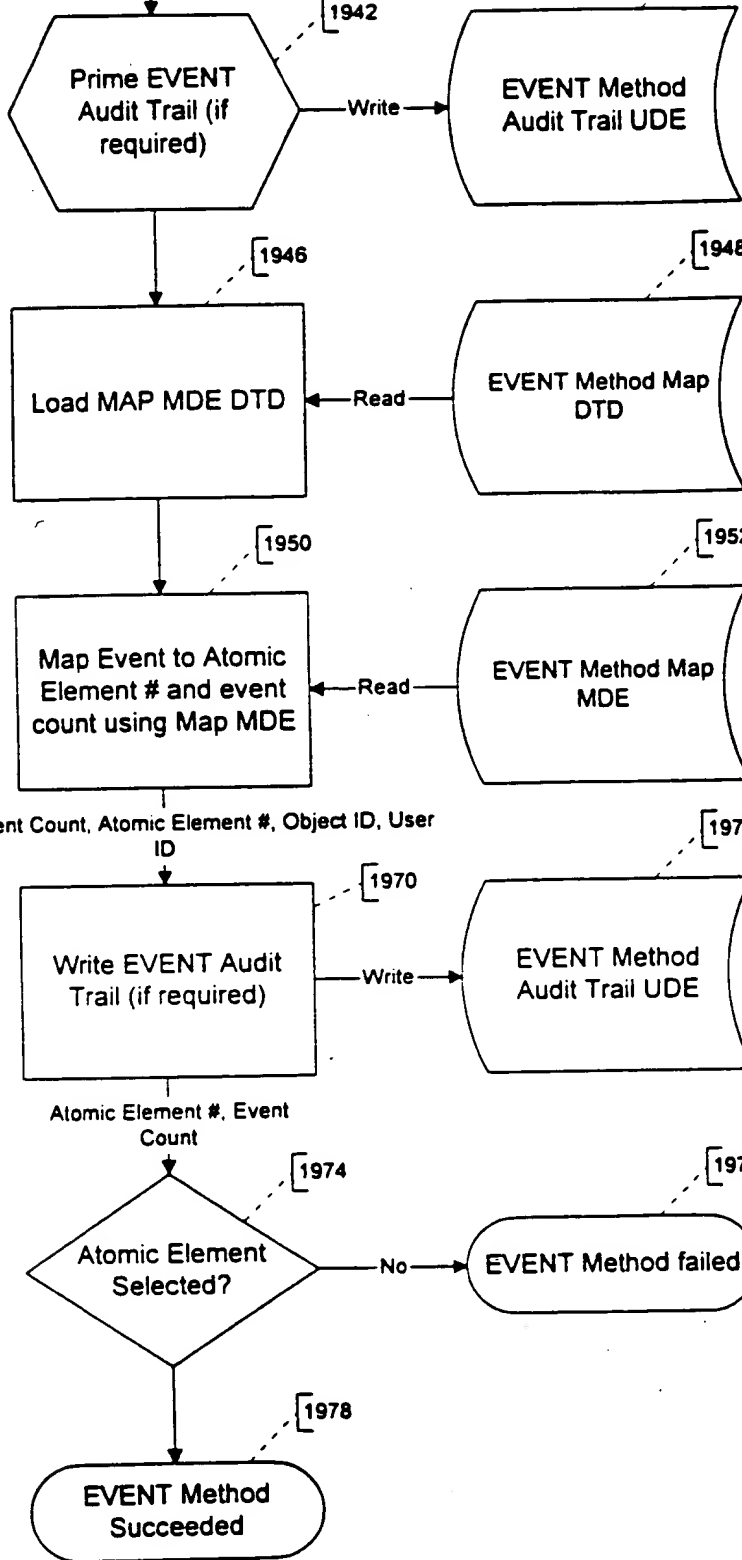


Figure 53a

2000 2002 2004 2006 2008 2010 2012 2014 2016 2018 2020 2022 2024 2026

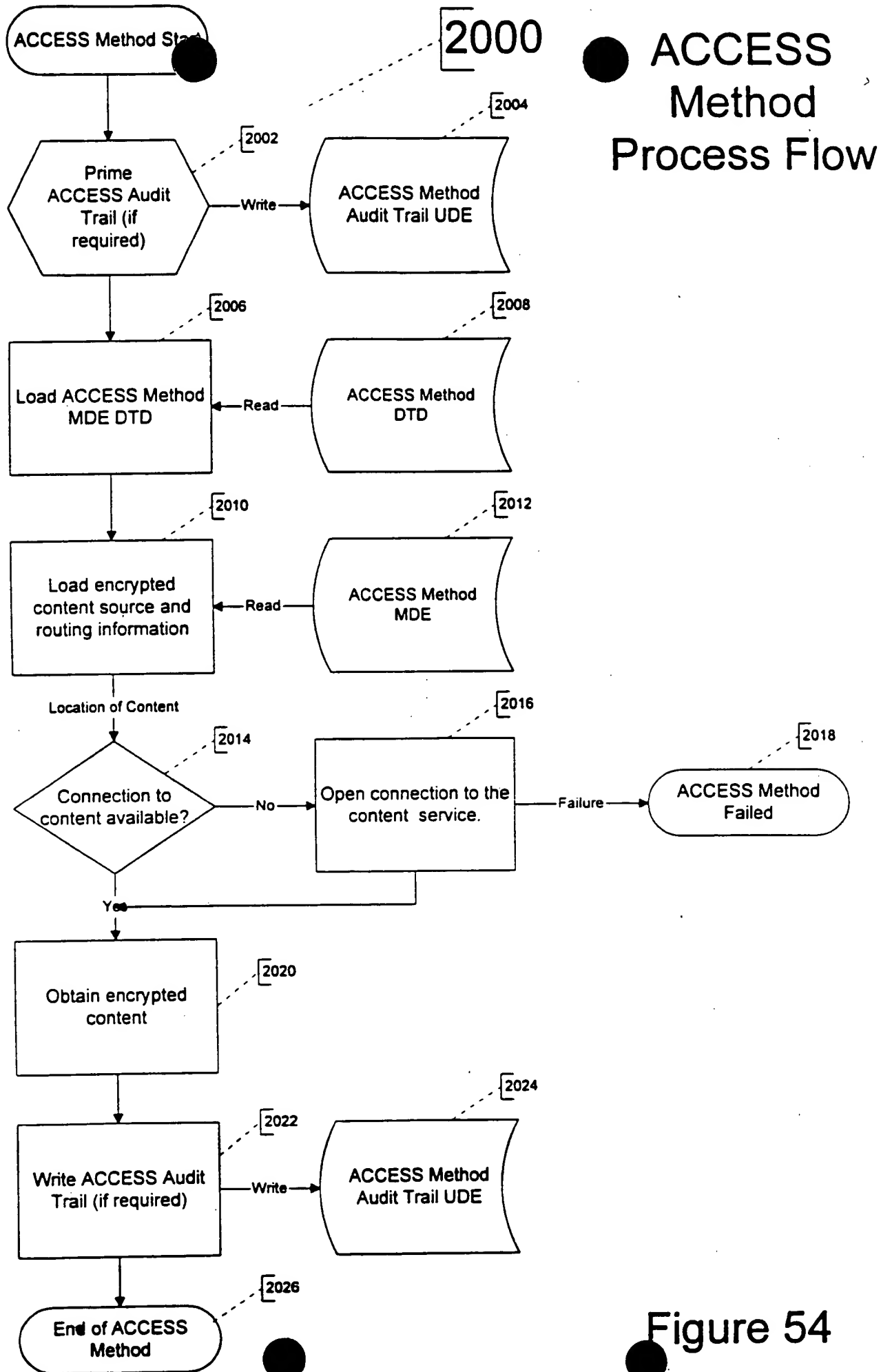


Figure 54

# BILLING Method Process Flows

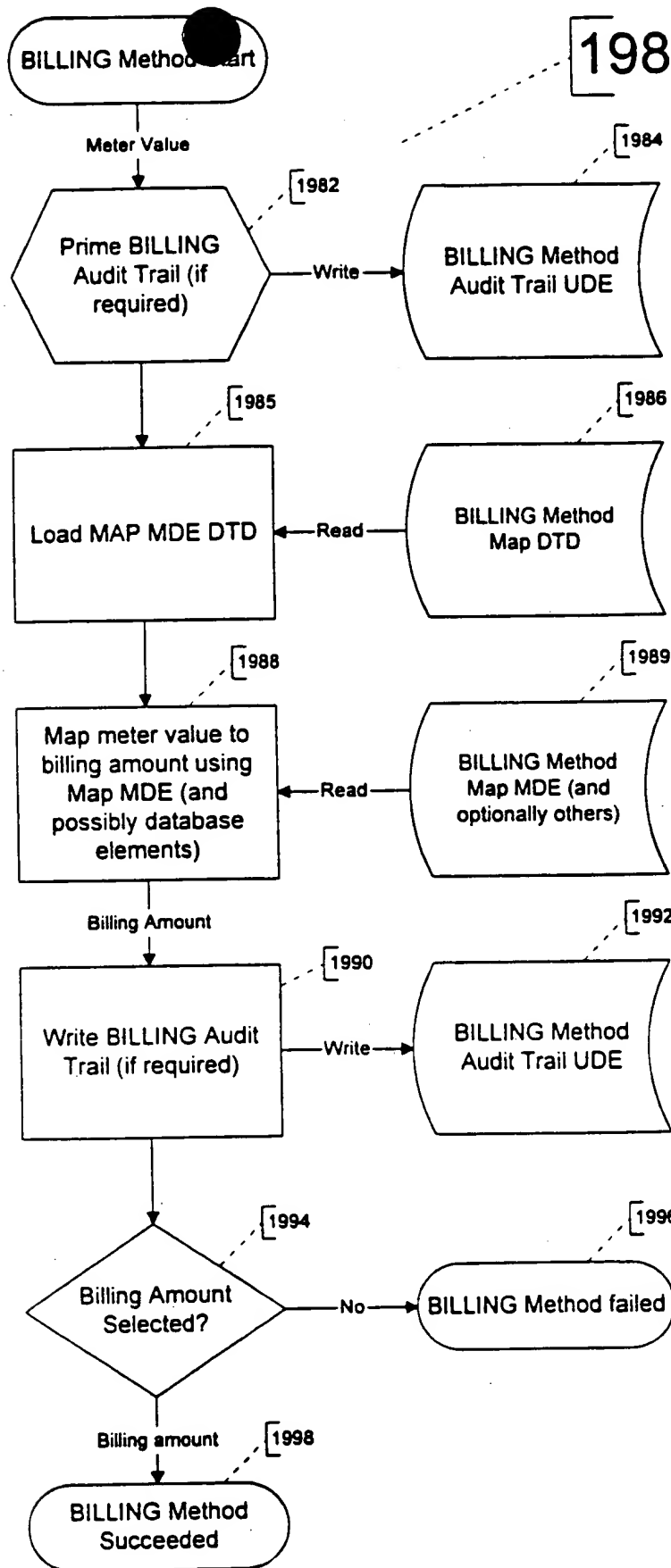


Figure 53c

# ENCRYPT Method Process Flow

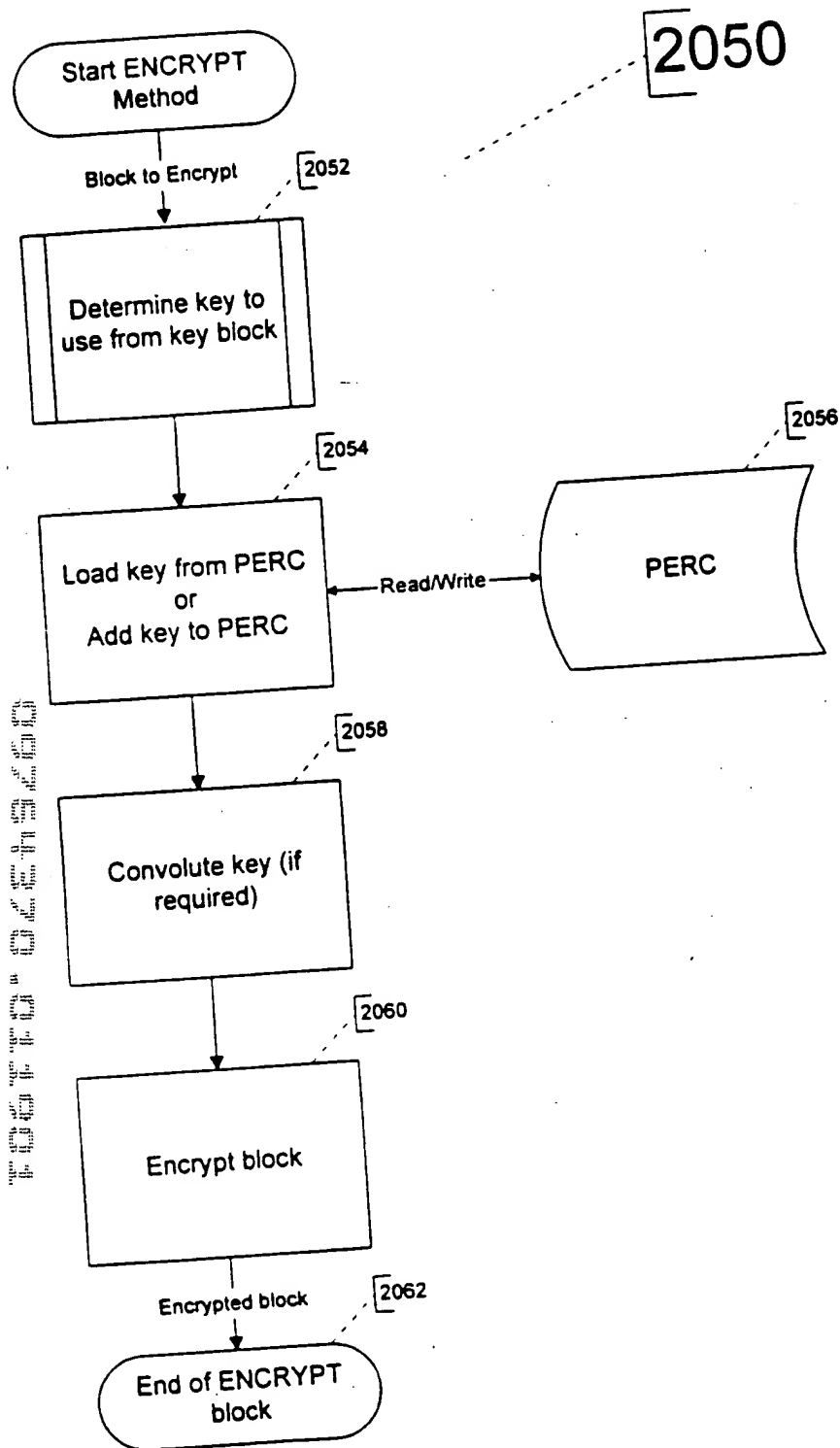
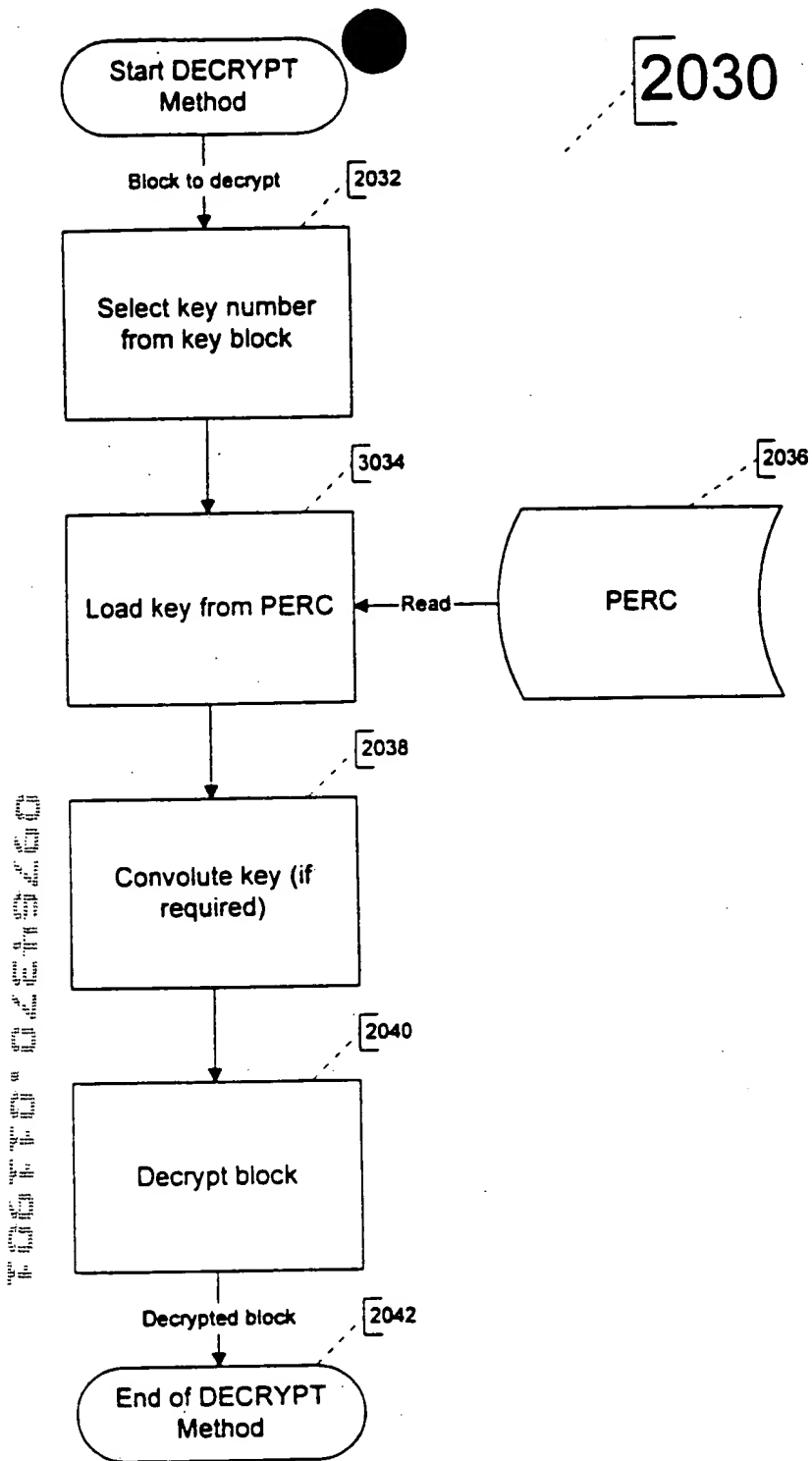


Figure 55b



# ● DECRYPT Method Process Flow



● Figure 55a

# EXTRACT Method Process Flow

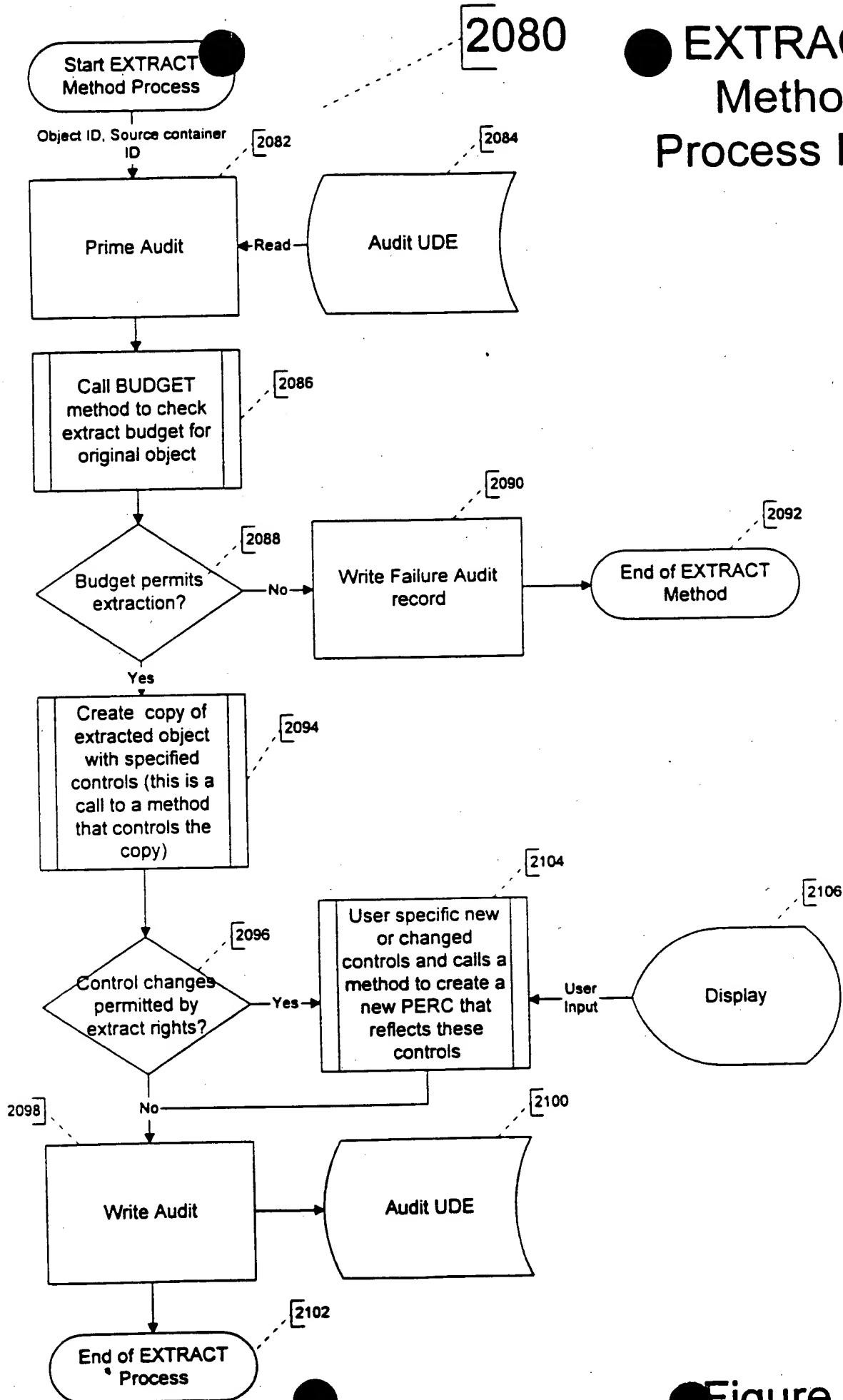
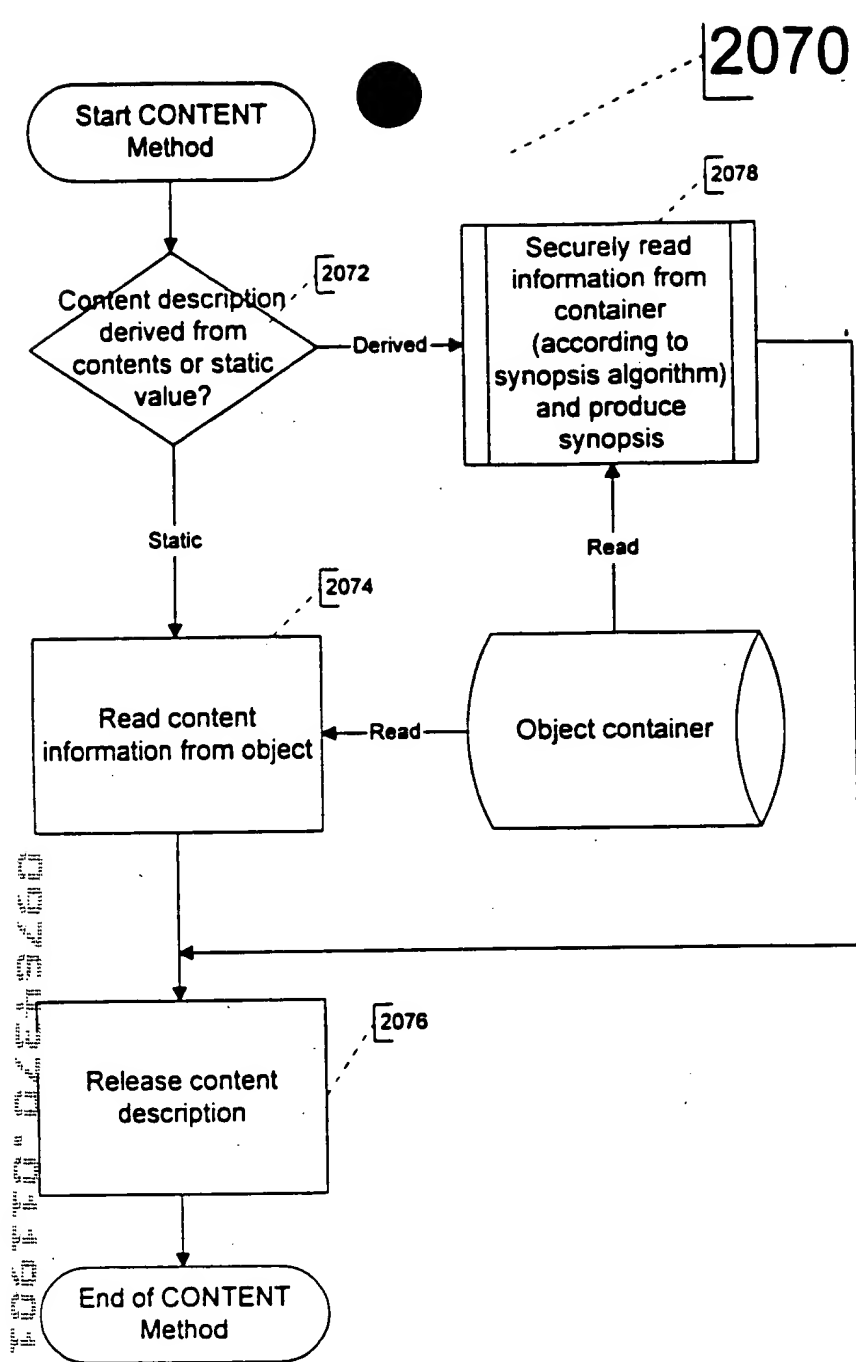


Figure 57a



# CONTENT Method Process Flow

Figure 56

# OBSCURE Method Process Flow

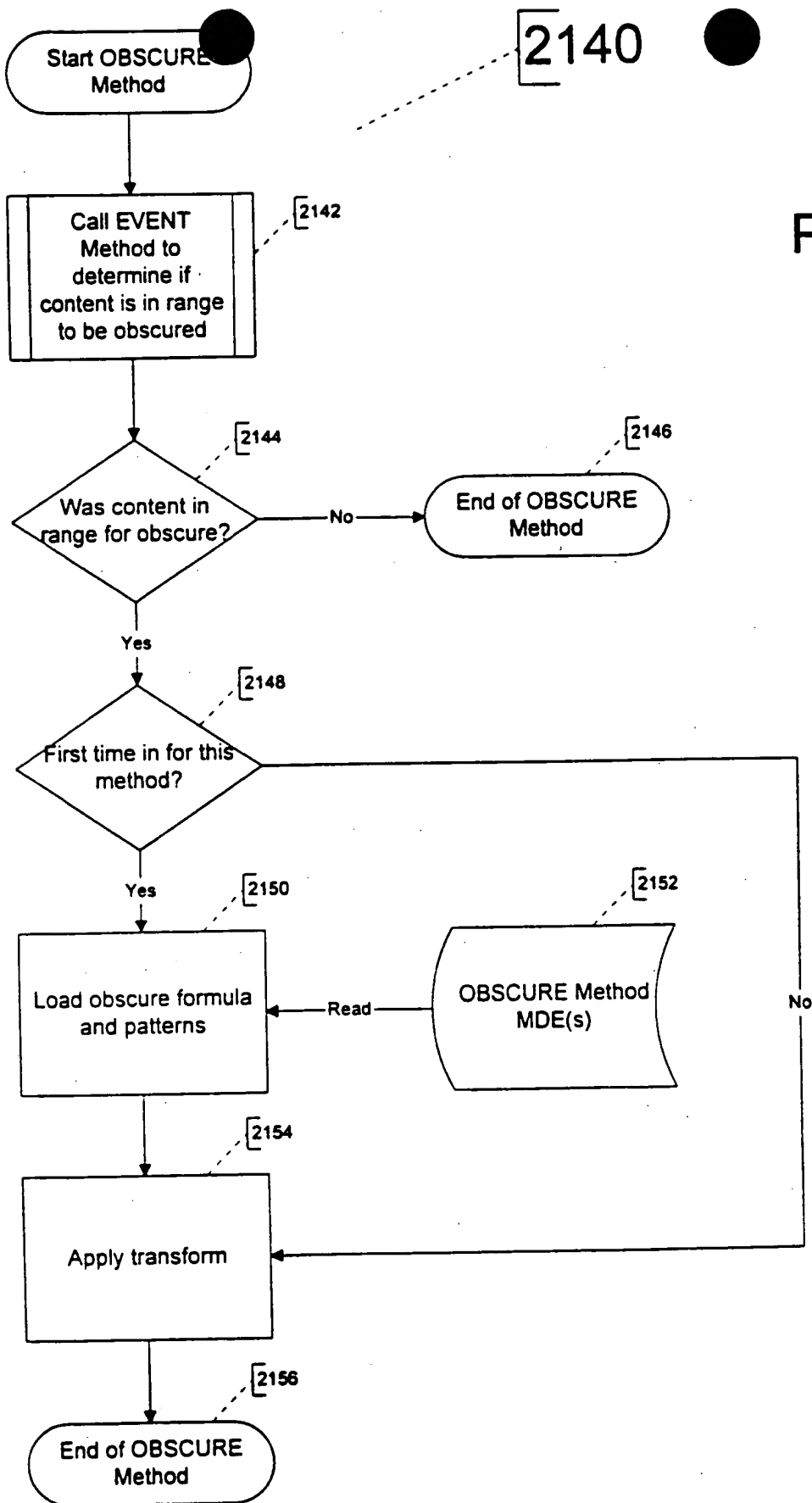


Figure 58a

# EMBED Method Process Flow

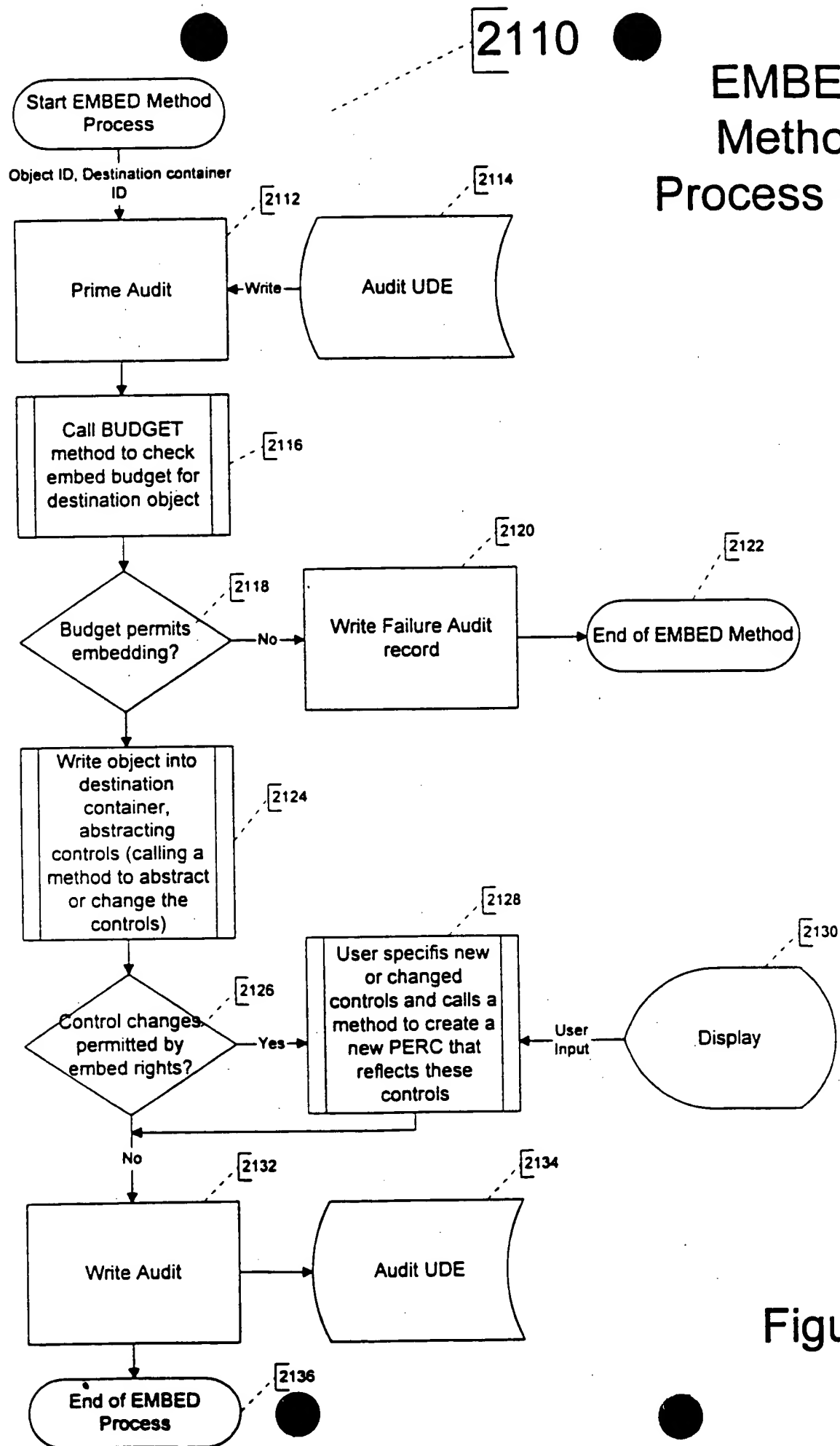


Figure 57b

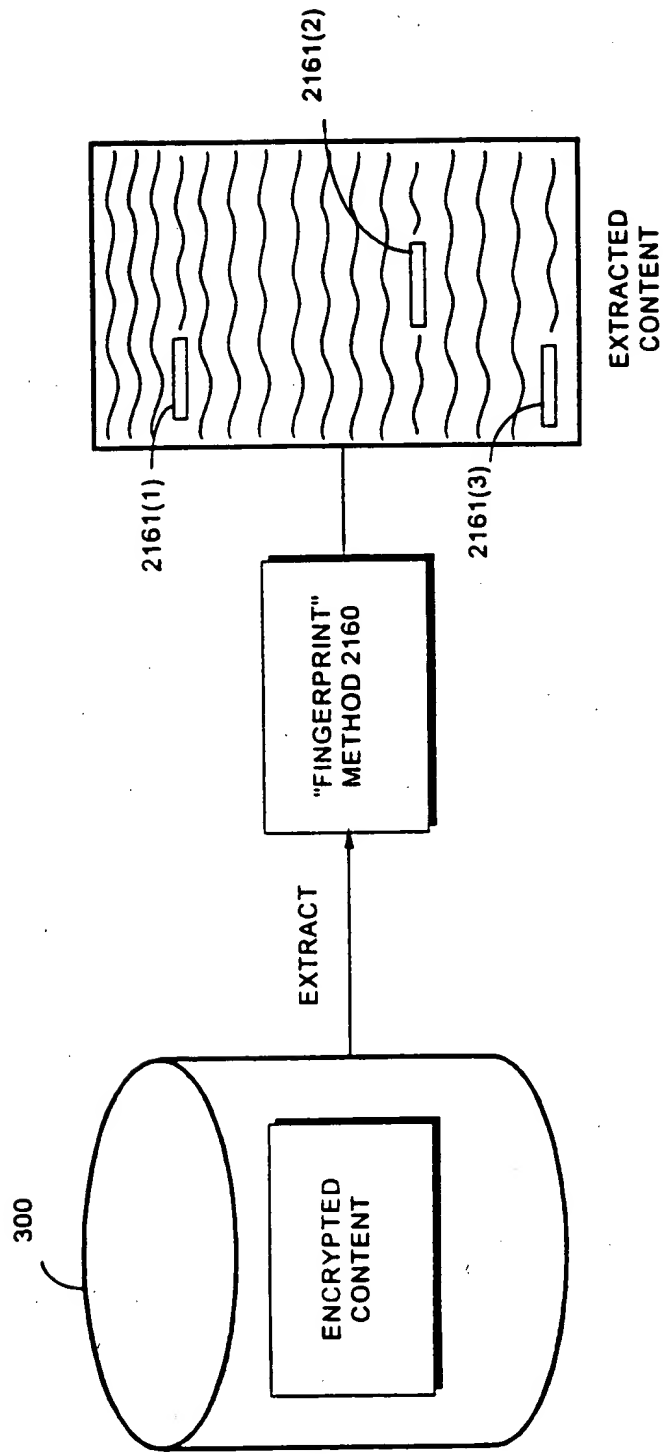
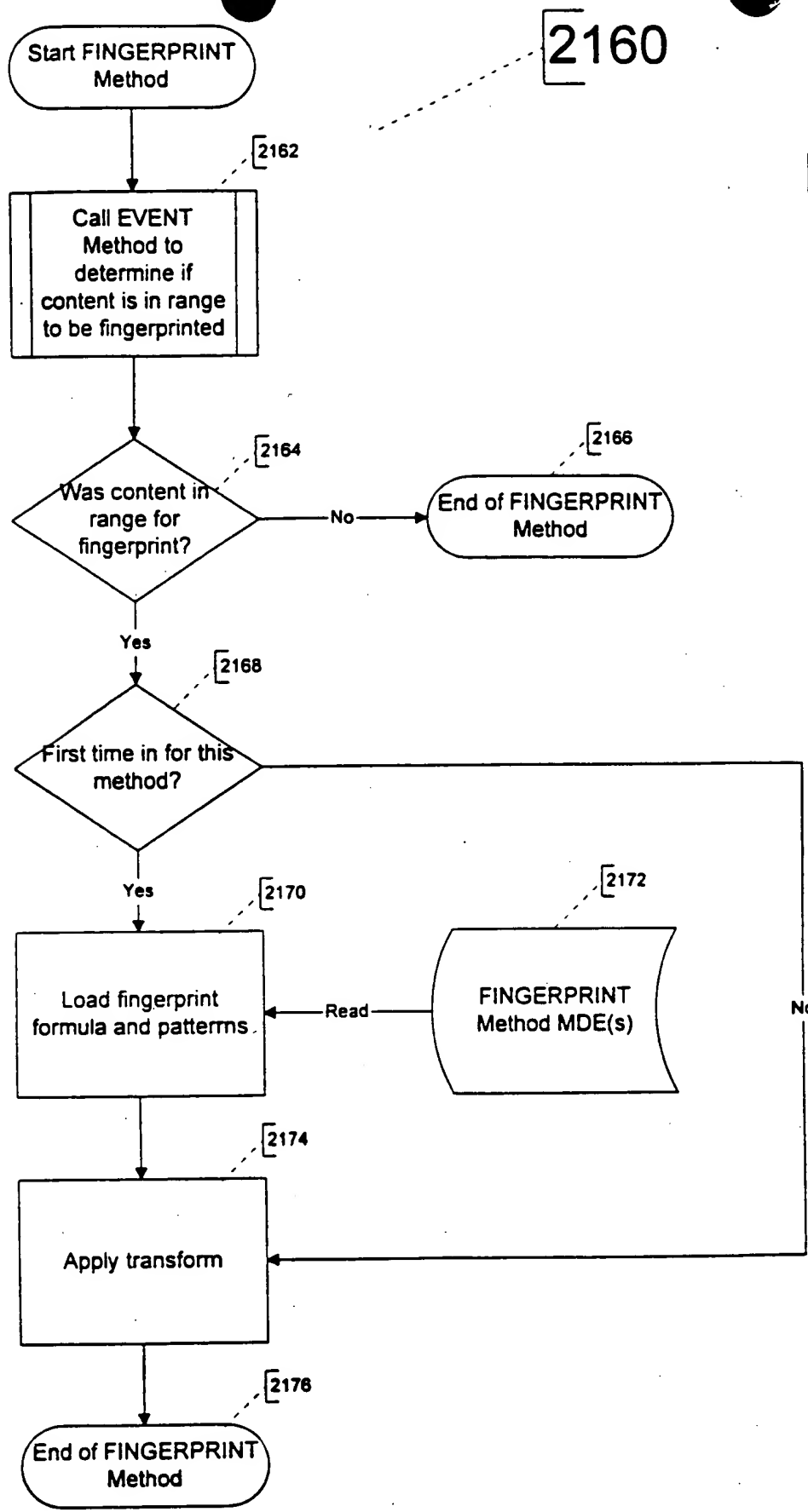


FIG. 58C



# FINGERPRINT Method Process Flow

Figure 58b

# PANIC Method Process Flow

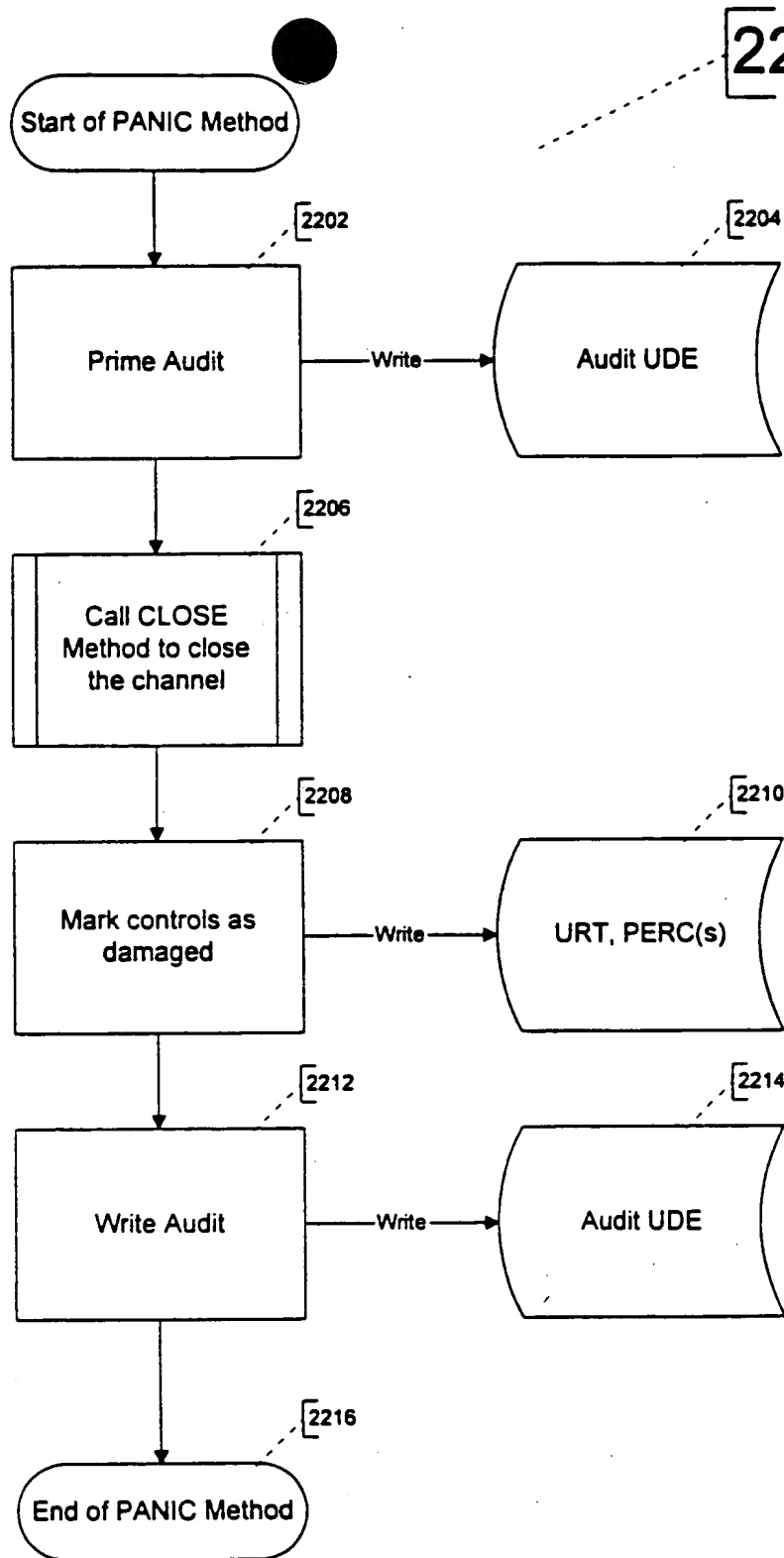


Figure 60



# DESTROY Method Process Flow

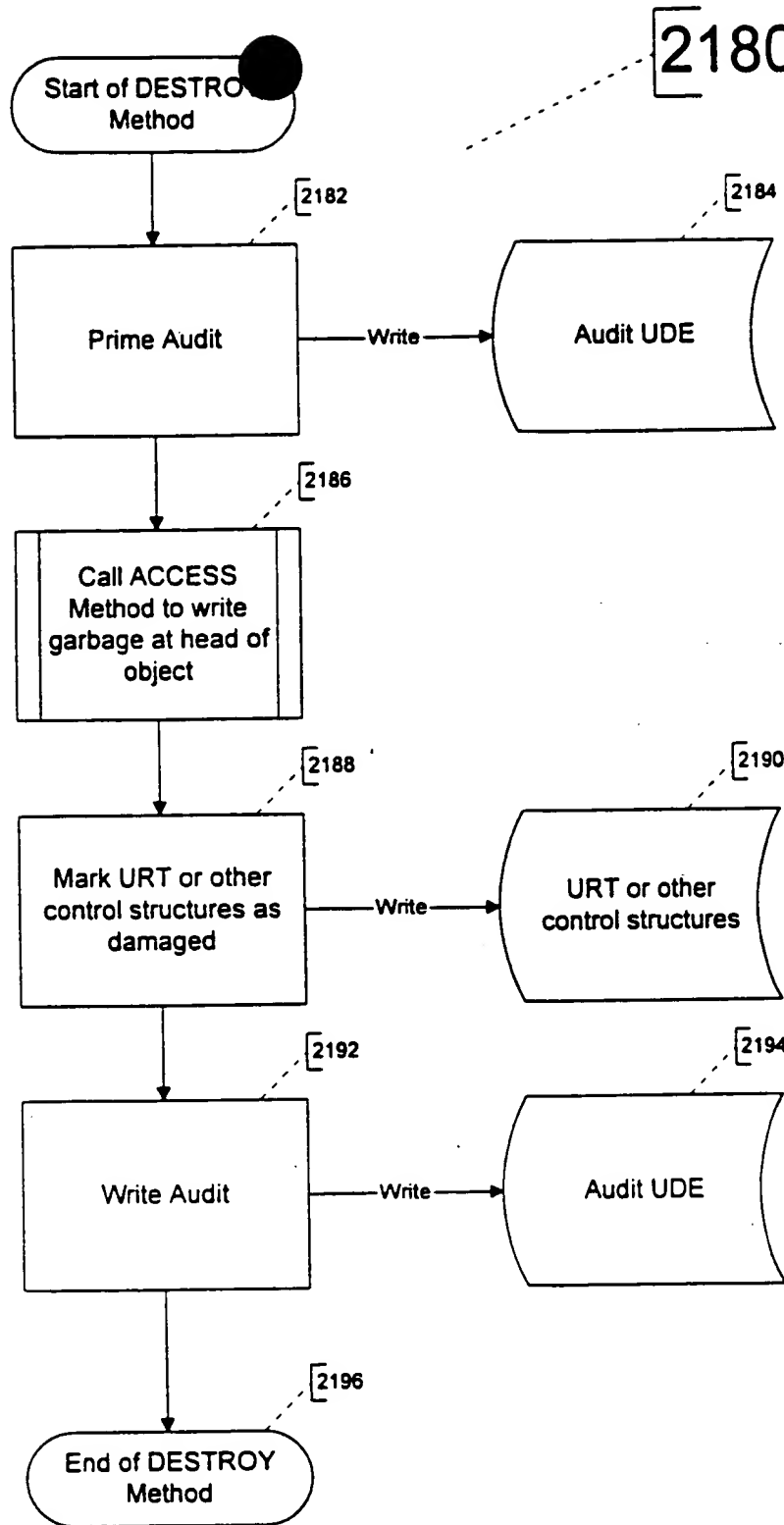
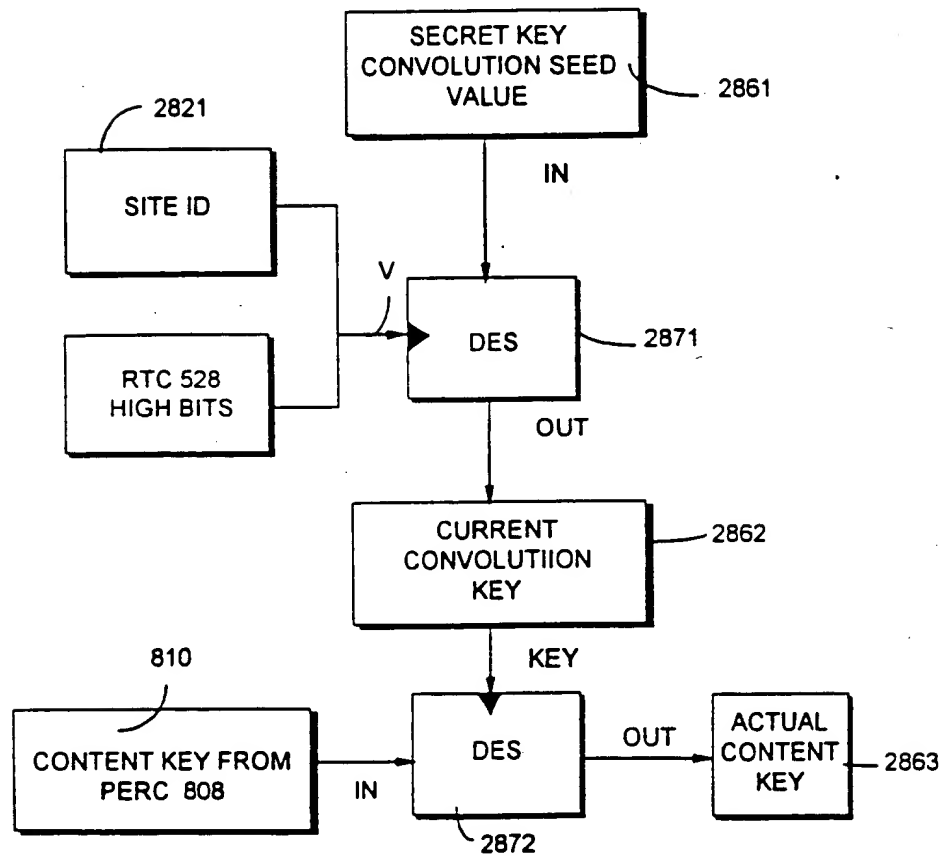


Figure 59

**FIG. 62**  
**KEY CONVOLUTION PROCESS**



# METER Method Use Process Flow

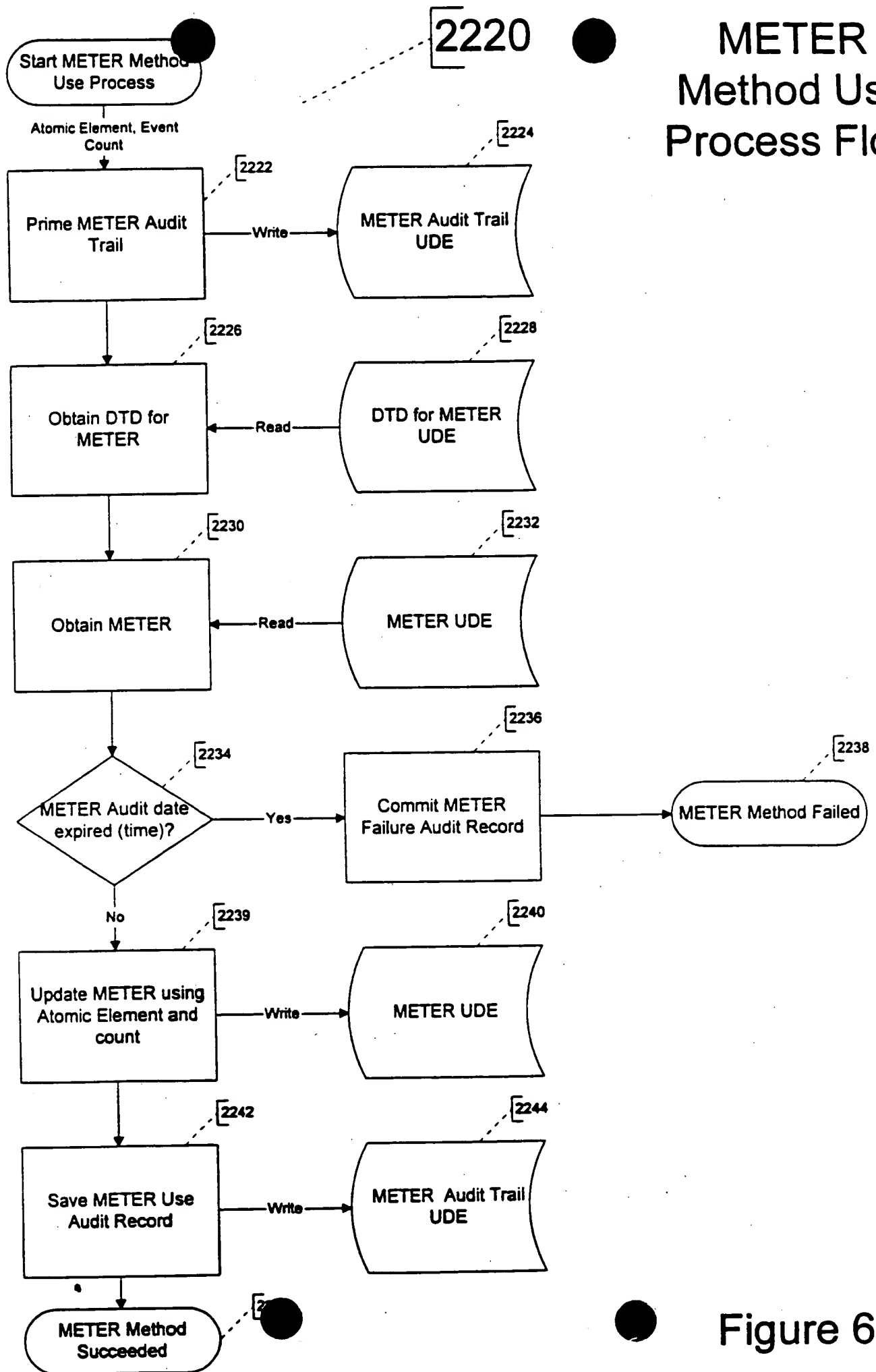
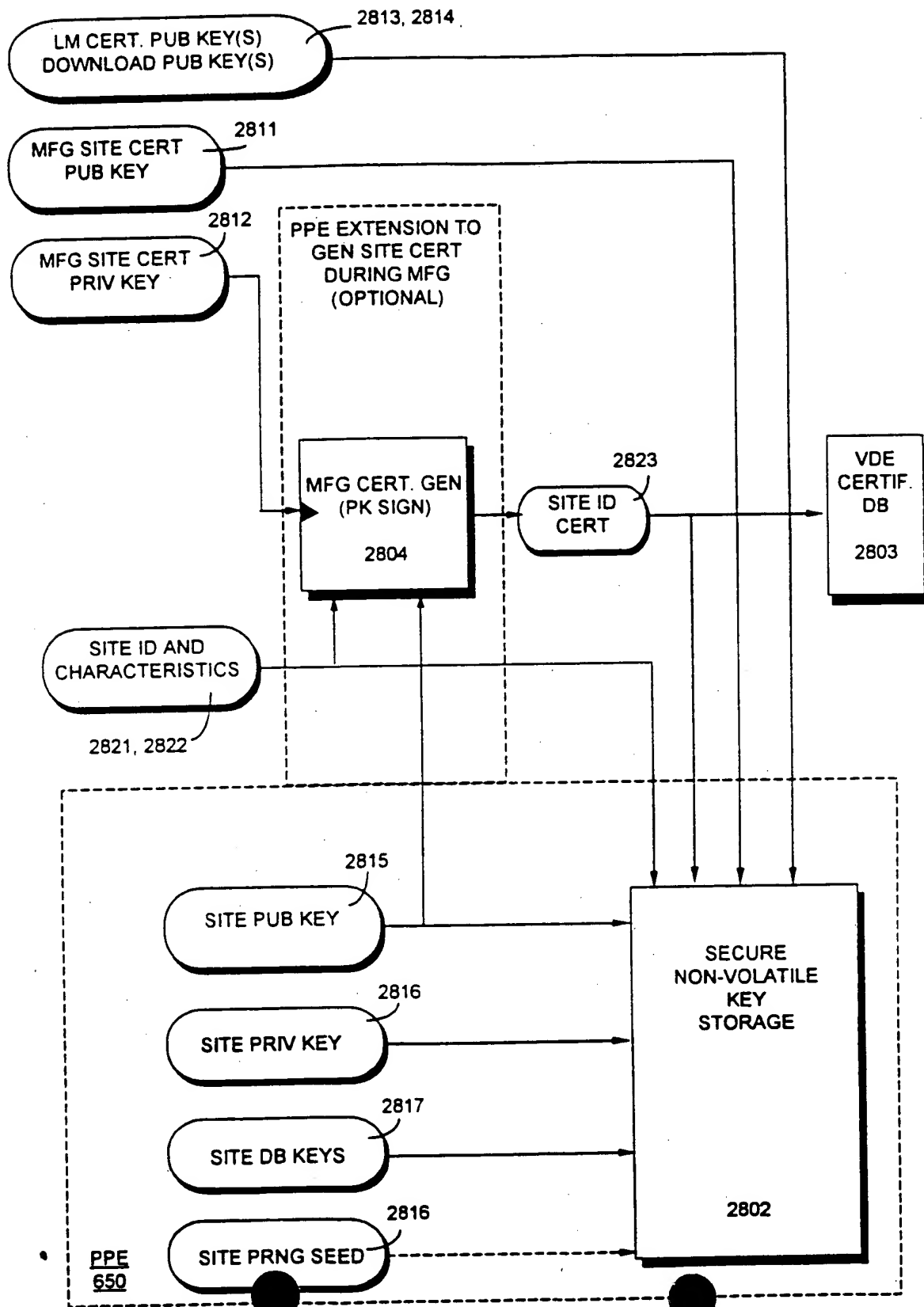


Figure 61

**FIG. 64** SPU KEY INITIALIZATION/INSTALLATION



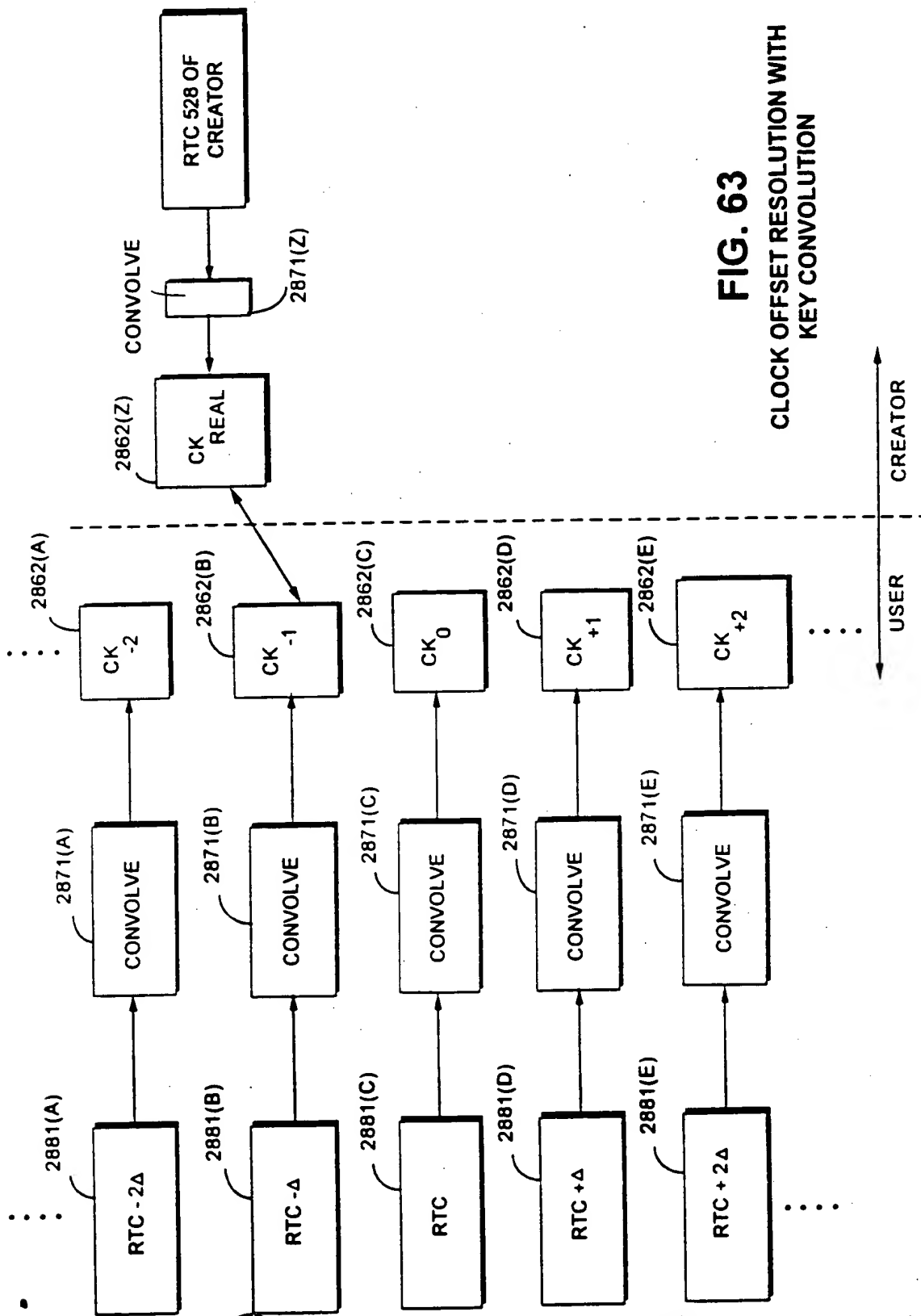
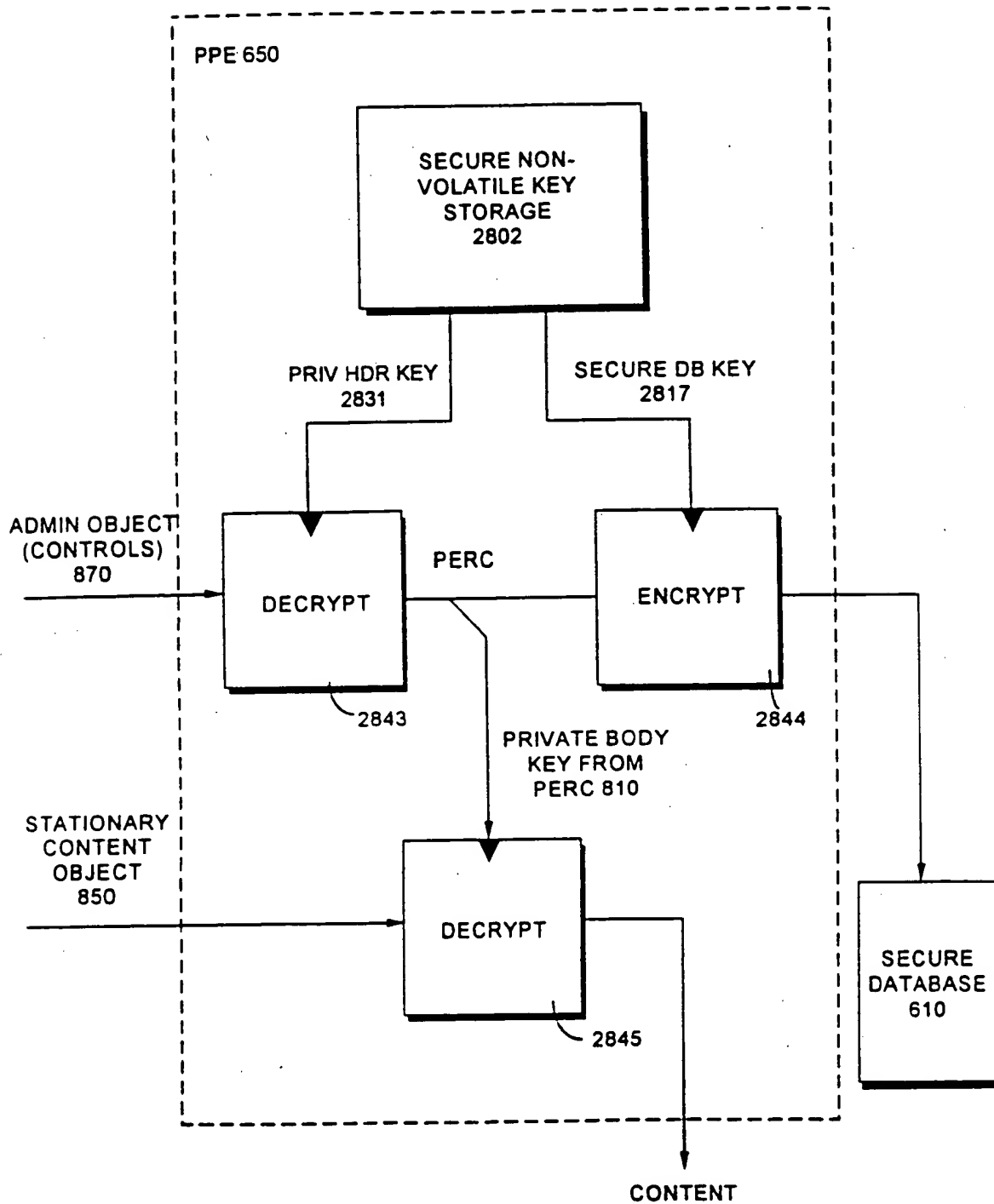


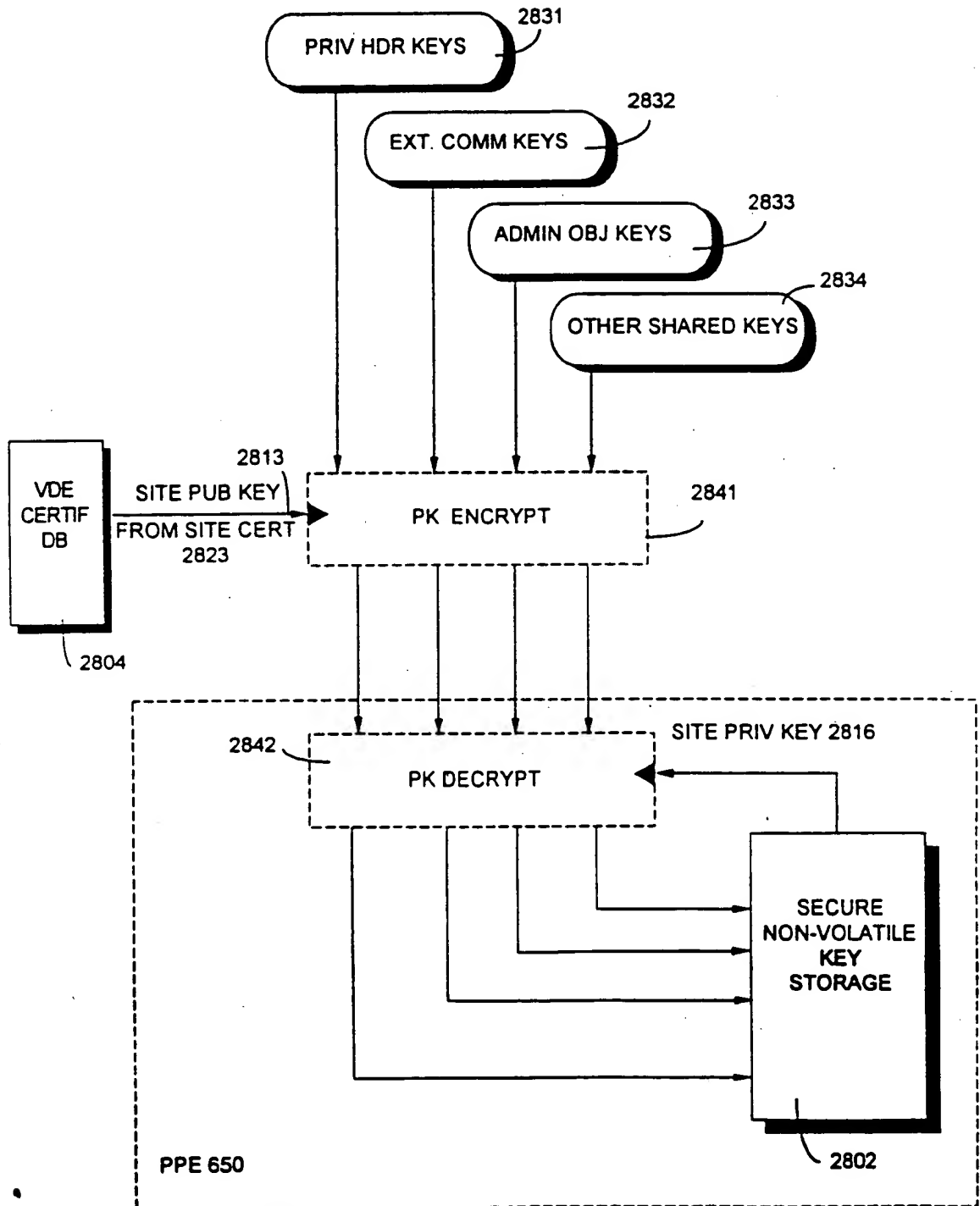
FIG. 63

CLOCK OFFSET RESOLUTION WITH  
KEY CONVOLUTION

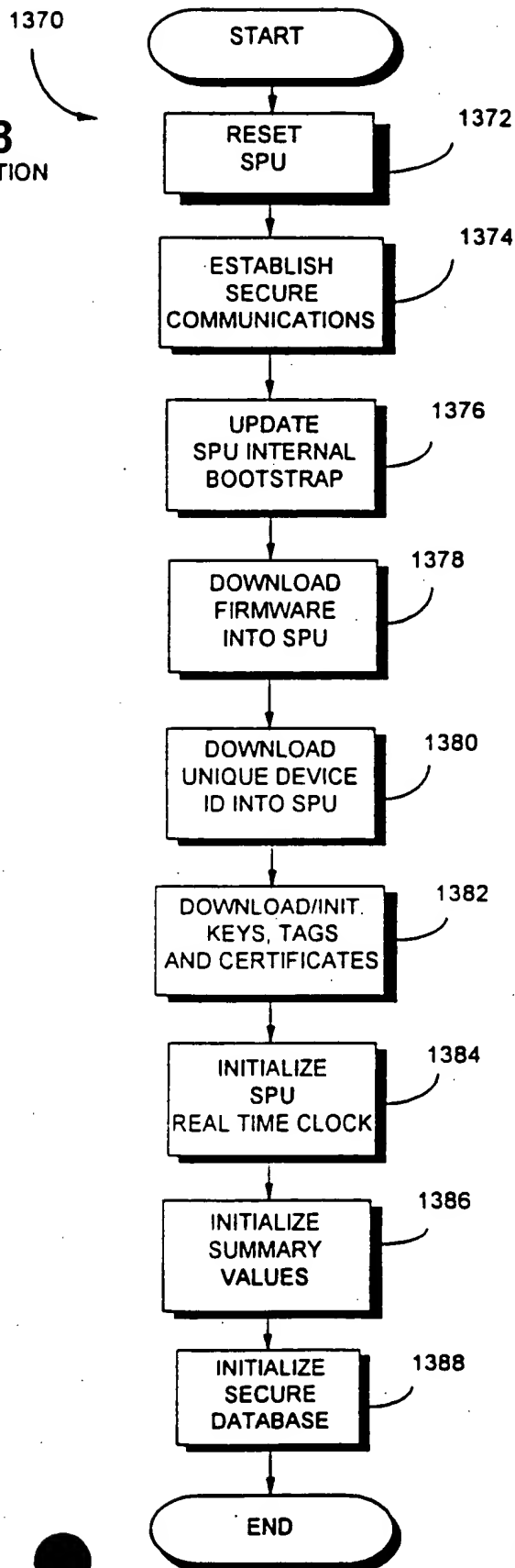


**FIG. 66** STATIONARY OBJECT DECRYPTION

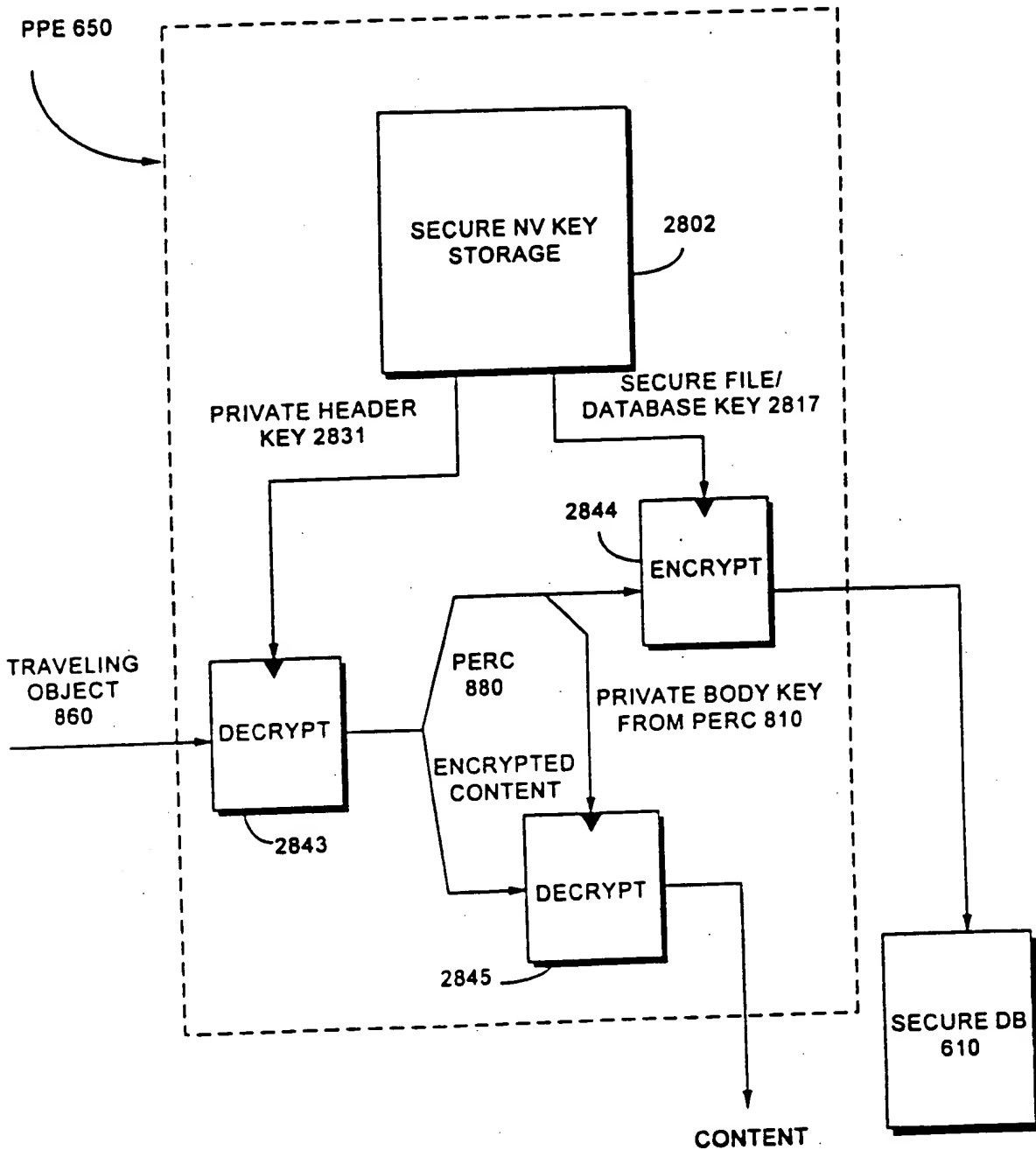
**FIG. 65** KEY INSTALLATION & UPDATE



**FIG. 68**  
SPU INITIALIZATION







**FIG. 67** TRAVELING OBJECT DECRYPTION

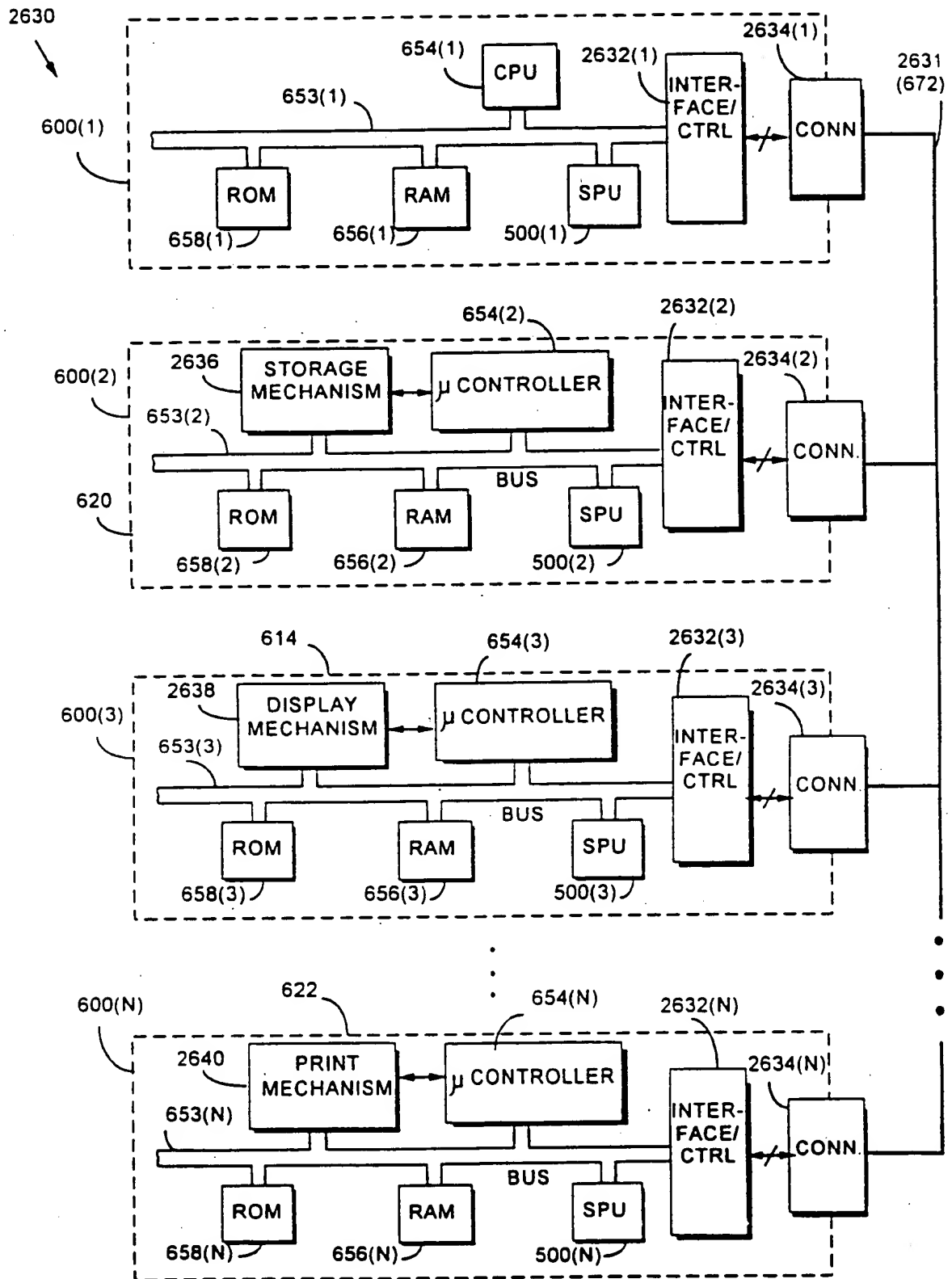
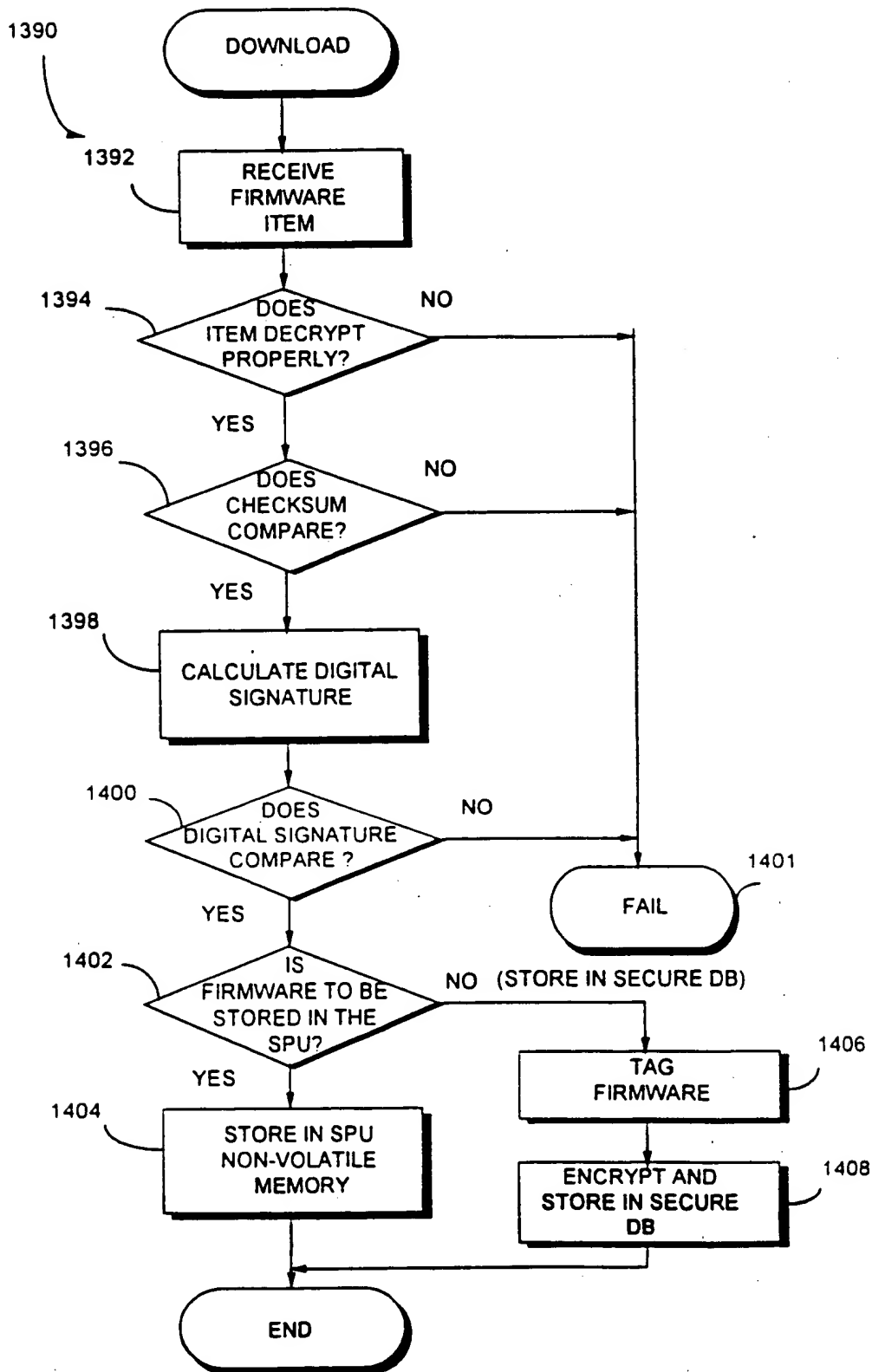


FIG. 70



**FIG. 69**

SPU FIRMWARE  
DOWNLOAD

LOG IN USER INTERFACE

182

A login interface window with a title bar. It contains two input fields: 'USER NAME:' with the text 'SHEAR, V.' and 'PASSWORD:' with five asterisks. To the right of these fields are three buttons: 'LOGIN', 'CANCEL', and 'HELP'. At the bottom left, there is a checkbox labeled 'LOGIN AT STARTUP'.

FIG. 72A

FIG. 72B

A dialog box titled 'YOU HAVE REQUESTED THESE PROPERTIES:'. It features a warning icon (triangle with an exclamation mark) on the left. The main text is 'LOONEY TUNES NEWS!'. Below this text is a 'PROPERTY INFO' button. To the right of the text are two buttons: 'APPROVE' and 'SUSPEND'. At the bottom, it says 'Your Cost: \$7.50' followed by a 'MORE OPTIONS' button and a question mark icon. The dialog box has a title bar.

FIG. 71

PORTABLE APPLIANCE

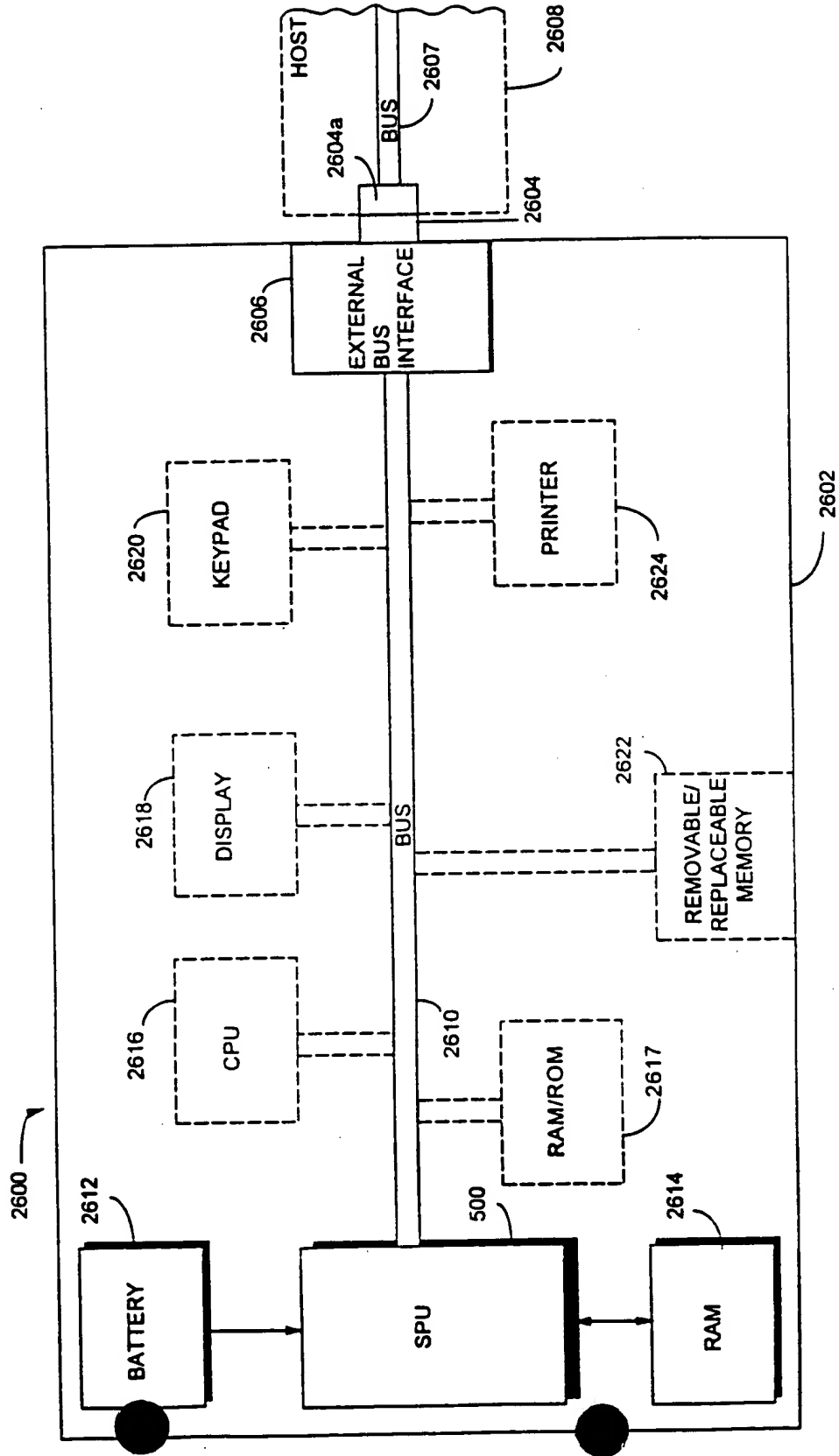



FIG. 72D



**YOU HAVE REQUESTED THESE PROPERTIES:**

**LOONEY TUNE NEWS!**

**YOUR COST : \$7.50**

**PROPERTY INFO**

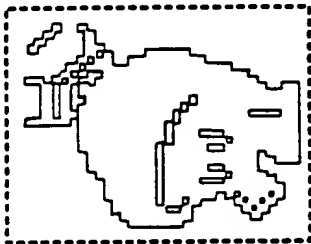
**More Options ☒**

**Show Thumbnail**

CANCEL

SUSPEND

APPROVE



PROPERTY:	SIZE:	PUBLISHER:	AMOUNT:	UNITS:	COST/UNIT:	TYPE:	USE?	LINKS:	HIST:
CHUCK JONES BIOGRA...	256KB	WARNER NEW MEDIA	64	KBYTE	\$1.25	PREVIEW	✓		●
▼ BUGS BUNNY.JPE...	1MB	WARNER NEW MEDIA	1	RECORD	\$5.00	DISPLAY	✓		●
BUGS BUNNY.JPEG...	1MB	WARNER NEW MEDIA	10	RECORD	\$3.50	DISPLAY			●
BUGS BUNNY.JPEG...	1MB	WARNER NEW MEDIA	25	RECORD	\$2.50	DISPLAY			●
FRIZ FRELENG BIOGRA...	256KB	WARNER NEW MEDIA	120	SECTOR	\$5.00	PRINT			
TEX AVERY BIOGRAP...	256KB	WARNER NEW MEDIA	50	PERCENT	\$2.50	COPY			
► DUCKI RABBITI DU...	64MB	WARNER NEW MEDIA	7.0	MINUTE	\$7.50	COPY-PRO			
MEL BLANC BIOGRAPH...	256KB	WARNER NEW MEDIA	1	SPECIAL	\$25.25	INSTALL			
LOONEY TUNES DATAB...	600MB	WARNER NEW MEDIA	1	OBJECT	\$2000.00	ALL			●

SET LIMITS...

SHOW BUDGETS

ACQUIRE BUDGET...

HISTORY...

TRANSFER...

PREFERENCES...

FEEDBACK...

HELP!

FIG. 72C

2666 2674

**SET LIMITS:**

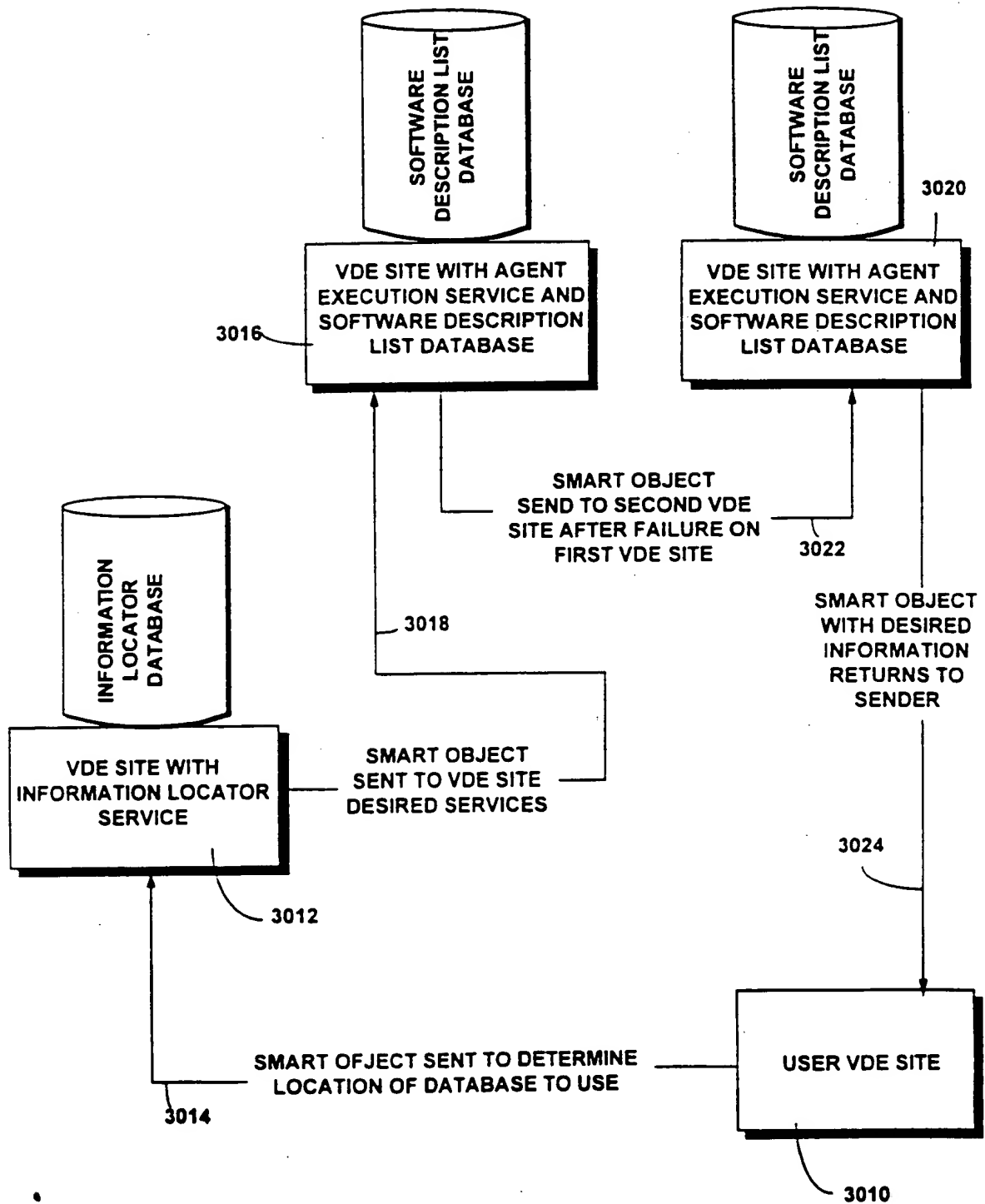
SESSION DOLLAR LIMIT: \$

TRANSACTION DOLLAR LIMIT: \$  2668

TIME LIMIT (IN MINUTES):  2670

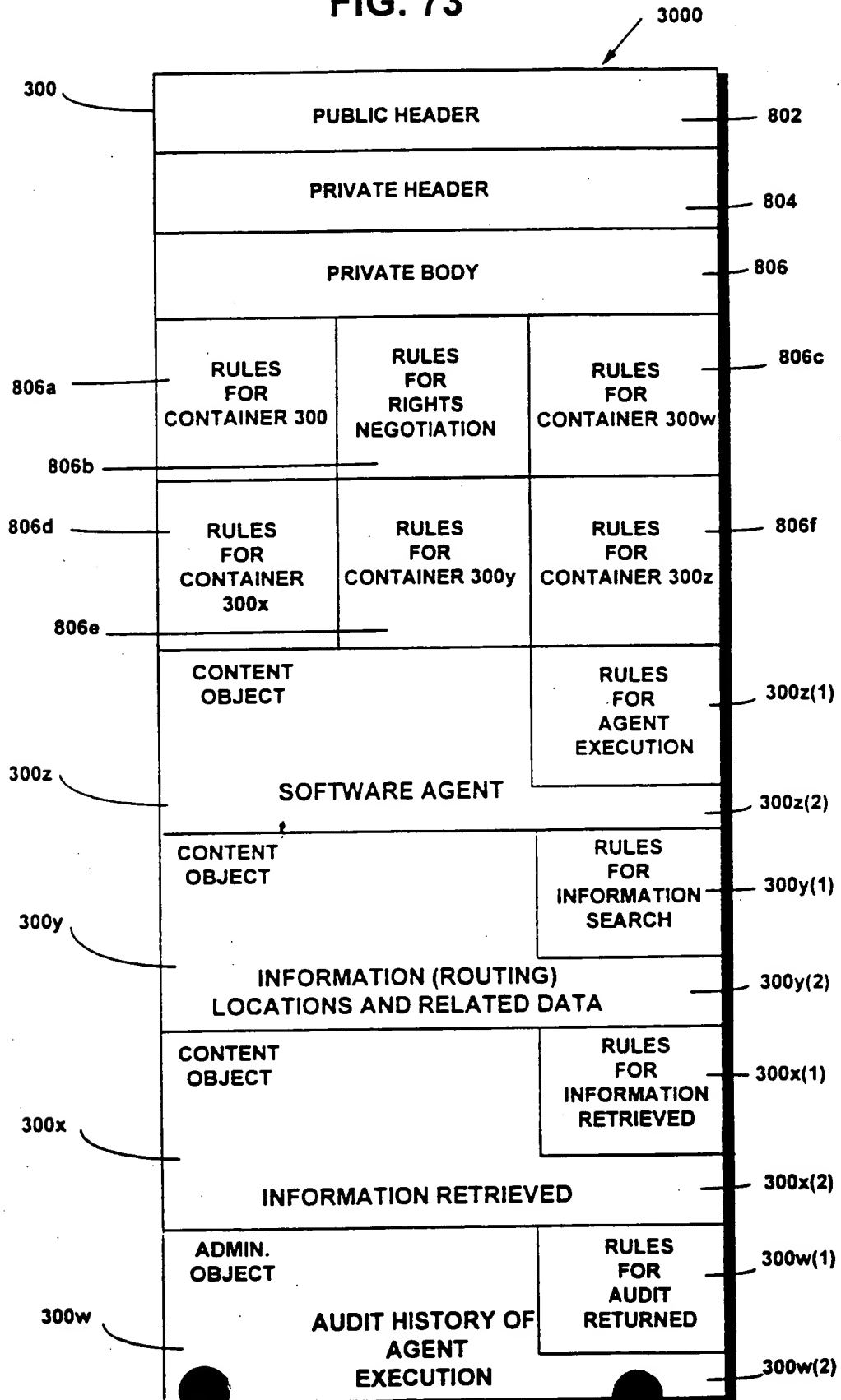
UNIT LIMIT:  2672

FIG. 74

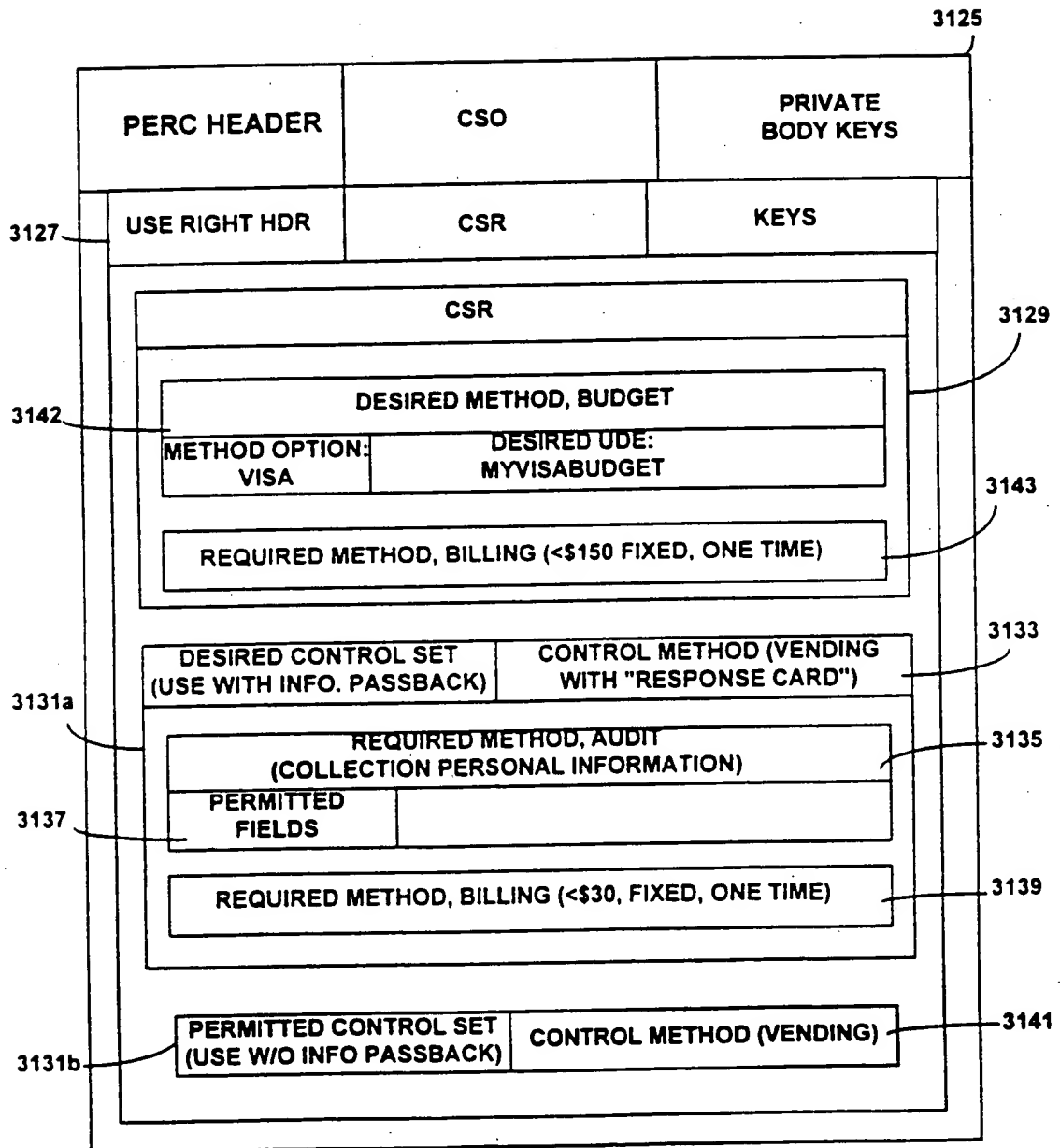




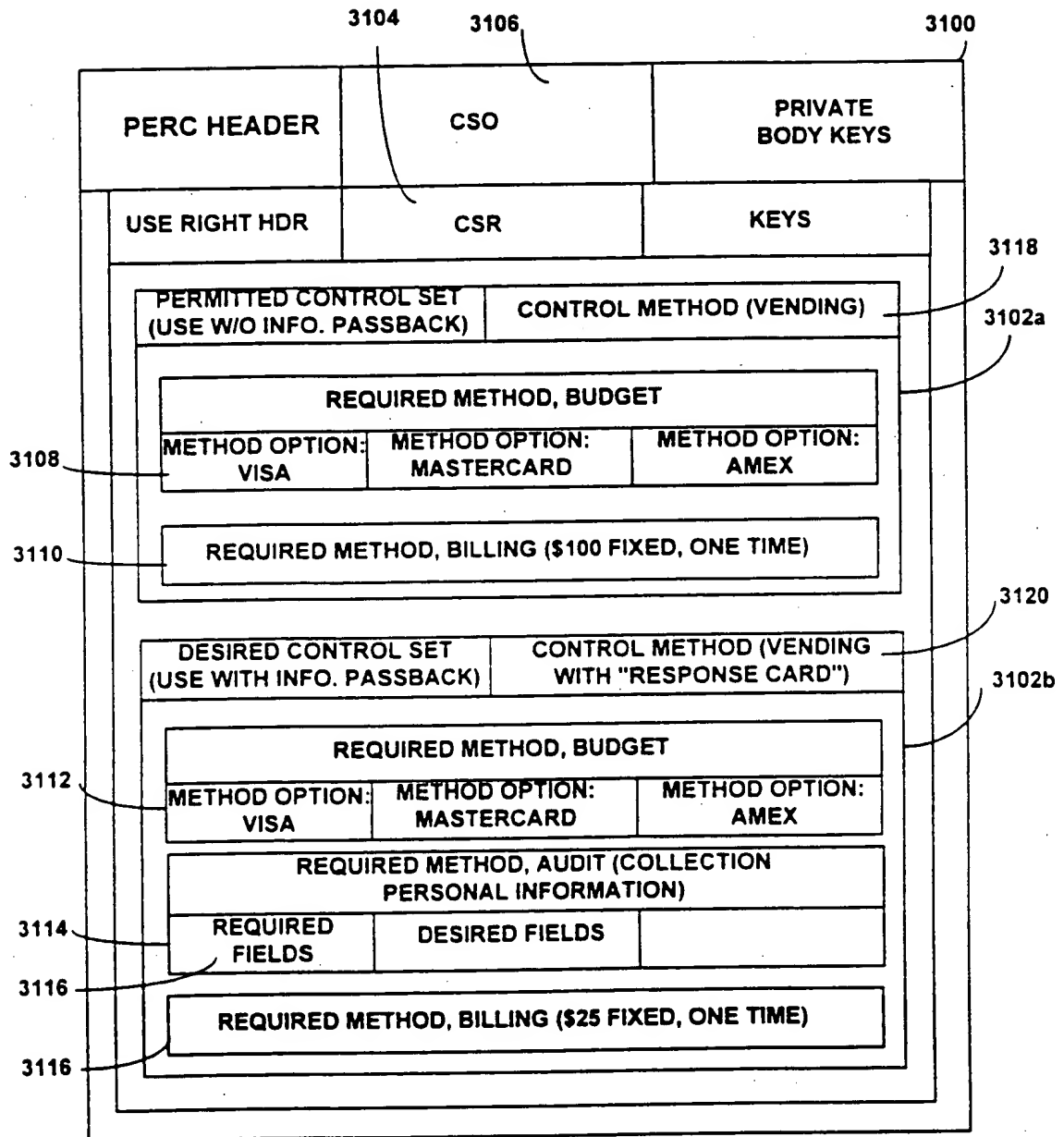
# FIG. 73



# FIG. 75B



# FIG. 75A



**FIG. 75D**

<b>URT HEADER</b>		<b>CSO</b>	<b>DIGITAL SIGNATURE</b>	3160
<b>USE RIGHT HDR</b>		<b>CSR</b>		
<b>CONTROL SET(USE WITH INFO. PASSBACK)</b>		<b>CONTROL METHOD(VENDING WITH "RESPONSE CARD")</b>		
<b>REQUIRED METHOD, BUDGET</b>				
<b>METHOD OPTION:</b> VISA		<b>DESIRED UDE:</b> MYVISABUDGET		
<b>REQUIRED METHOD, AUDIT (COLLECTION PERSONAL INFORMATION)</b>				
<b>PERMITTED FIELDS</b>				
<b>REQUIRED METHOD, BILLING(\$25, FIXED, ONE TIME)</b>				

3162

3164

3166

3170

# FIG. 75C

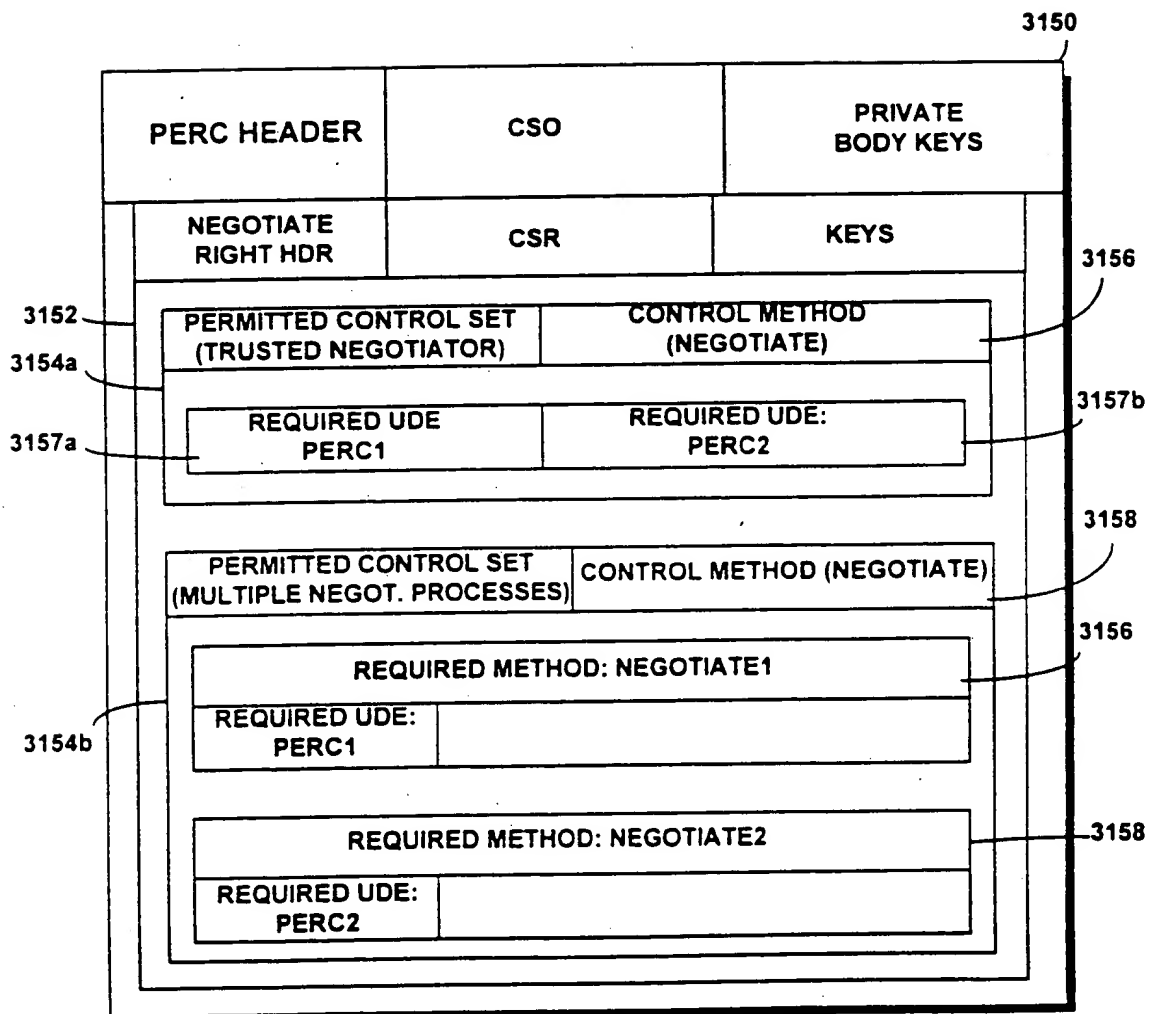
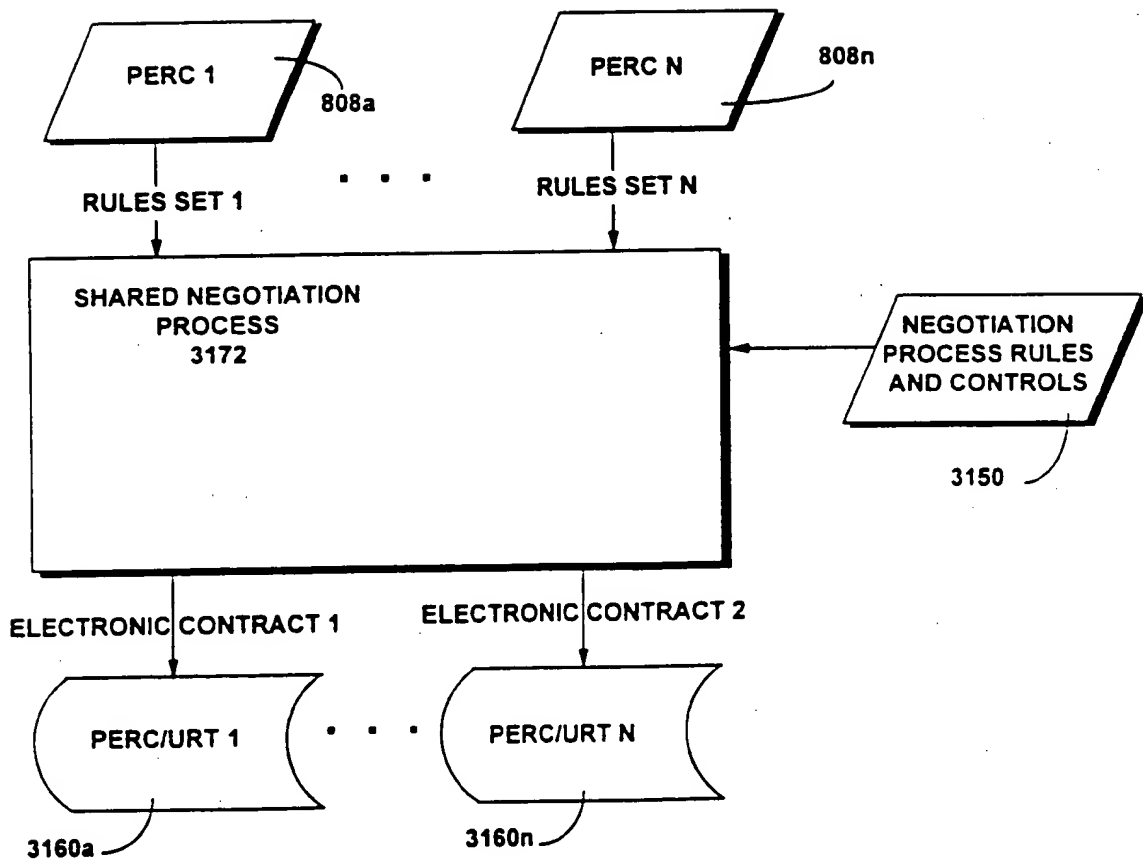
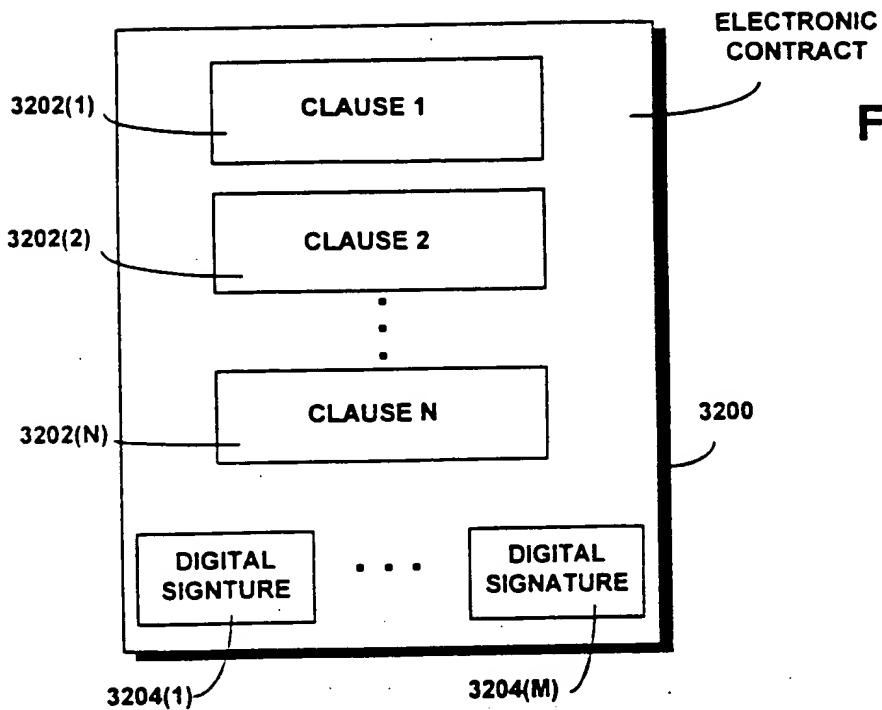
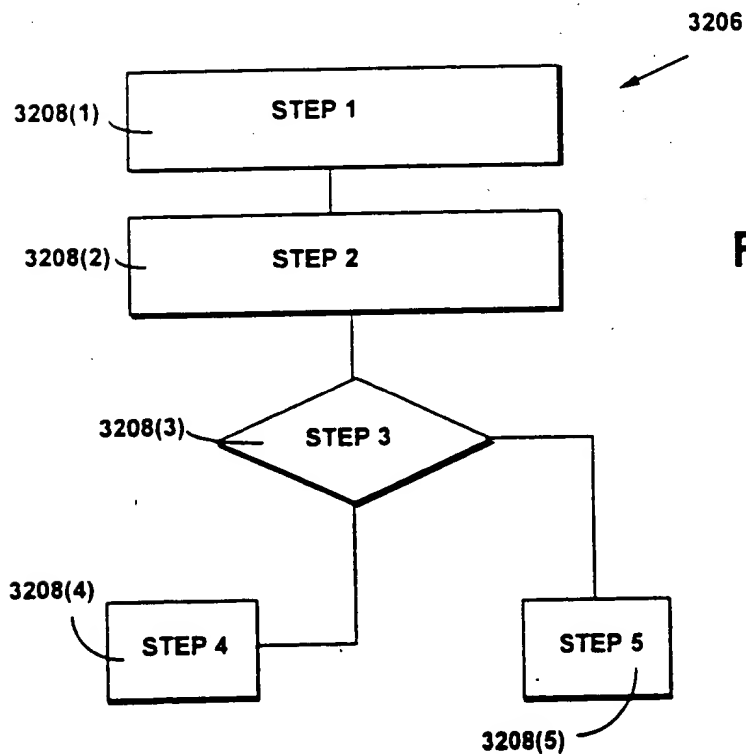


FIG. 76A





**FIG. 75E**



**FIG. 75F**

FIG. 77

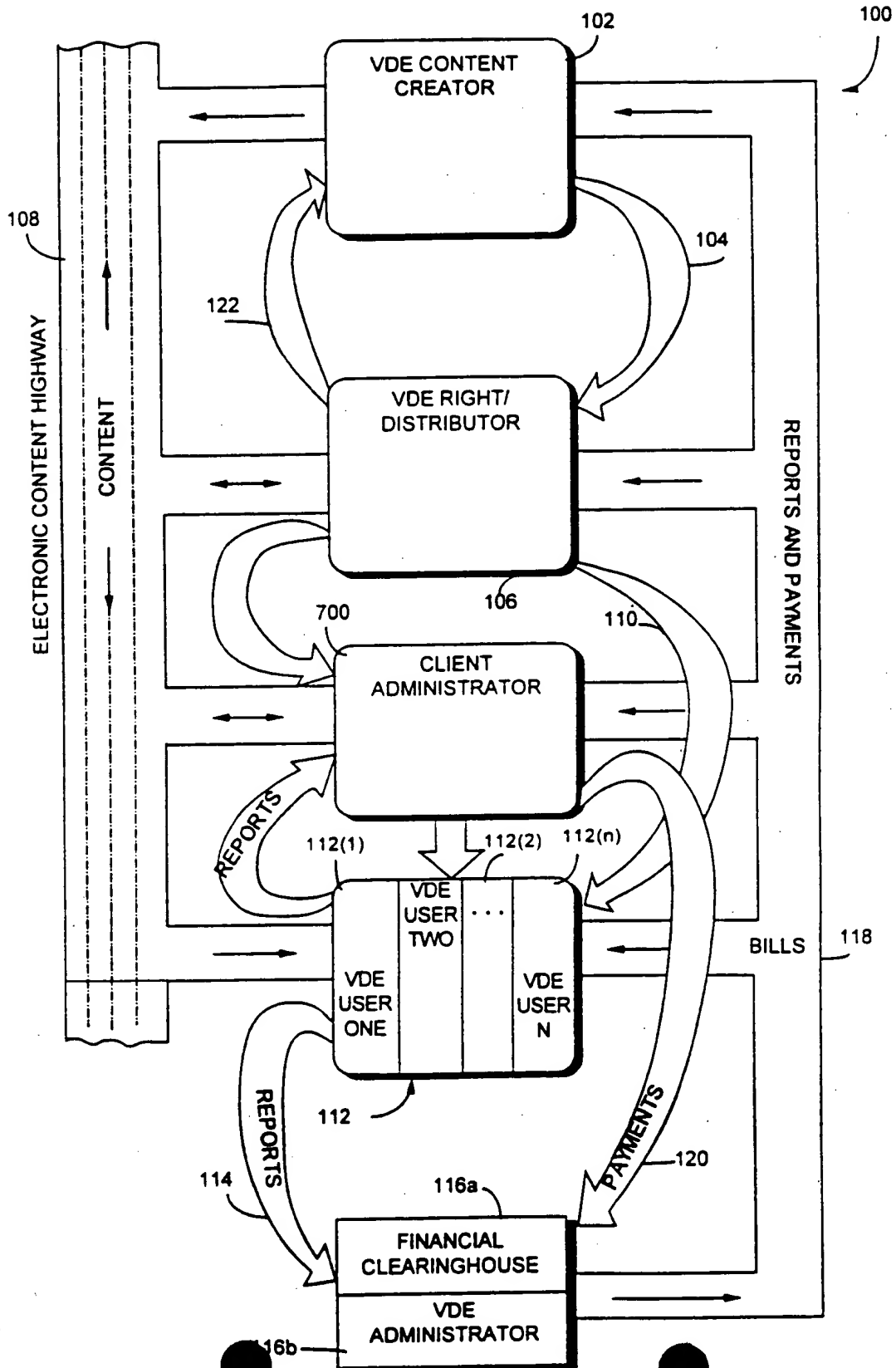
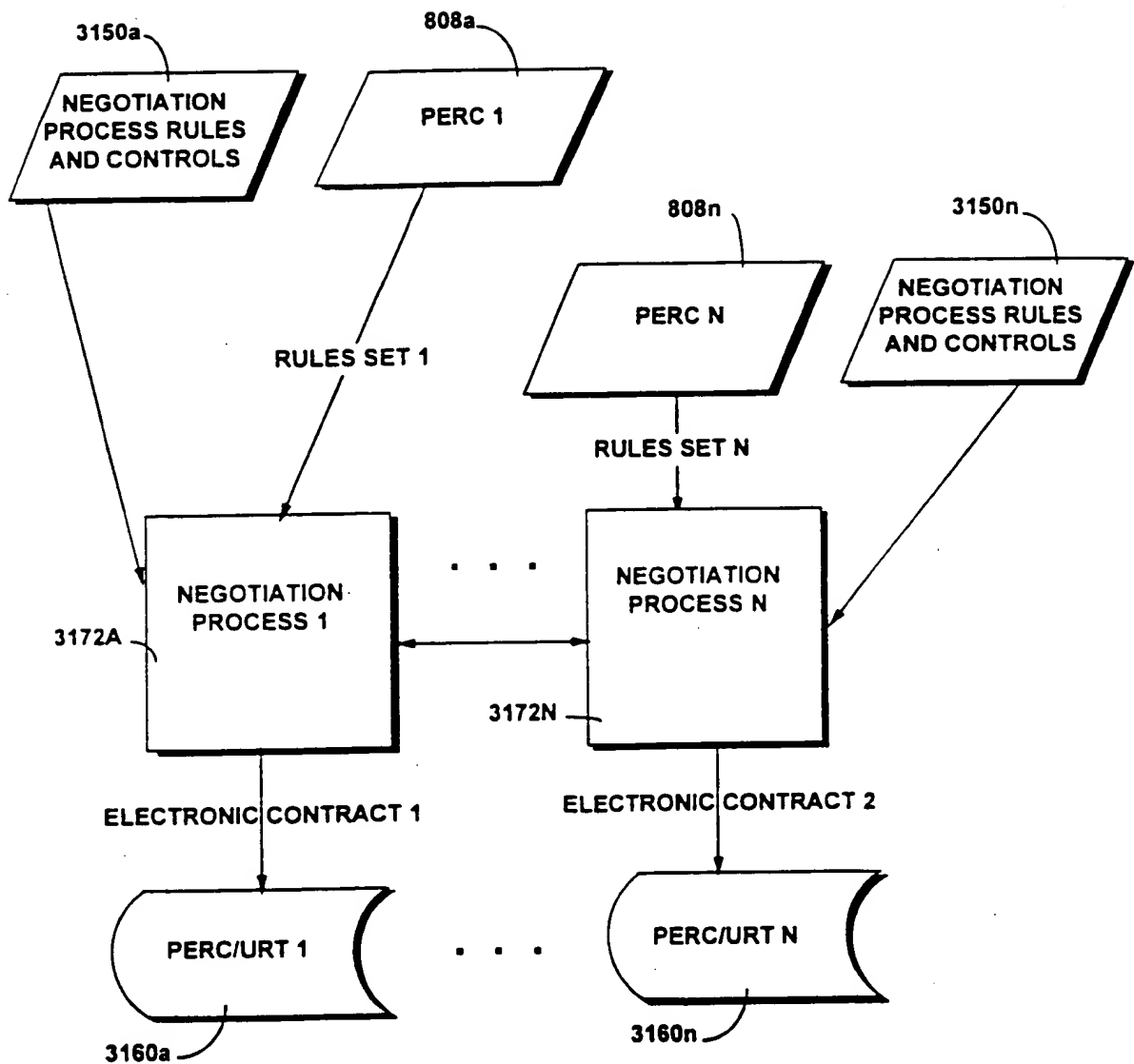
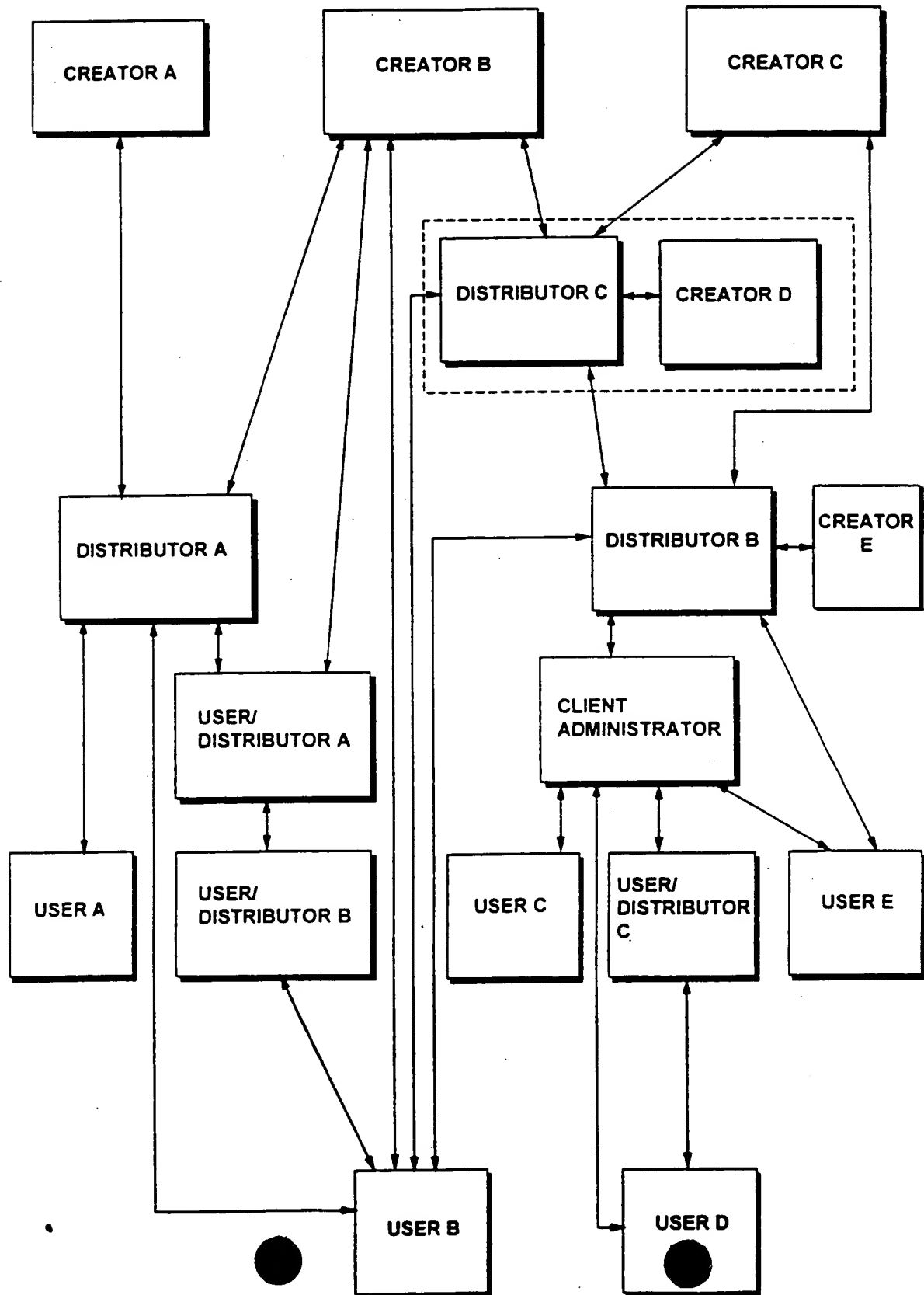




FIG. 76B



**FIG. 79**



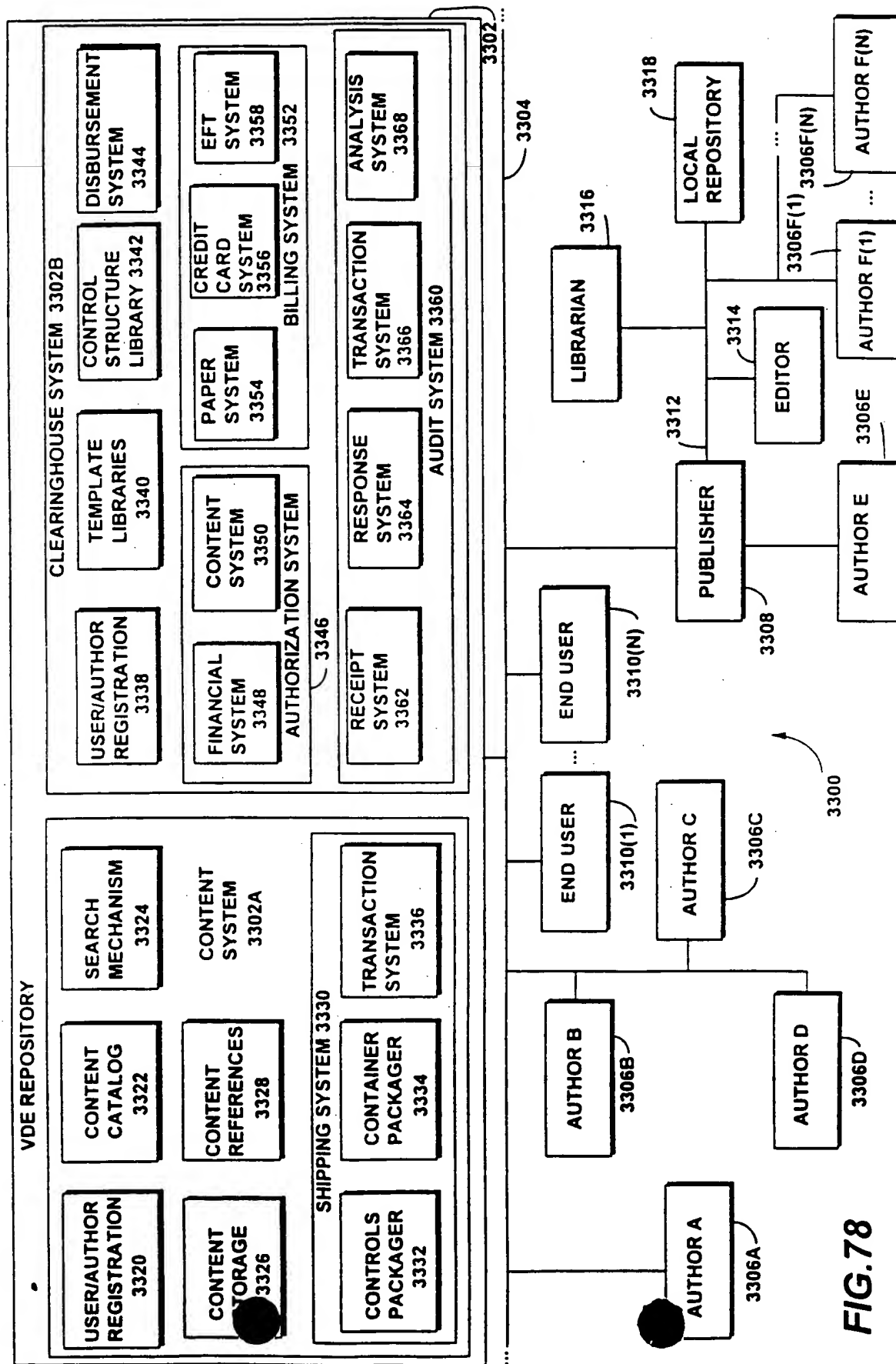
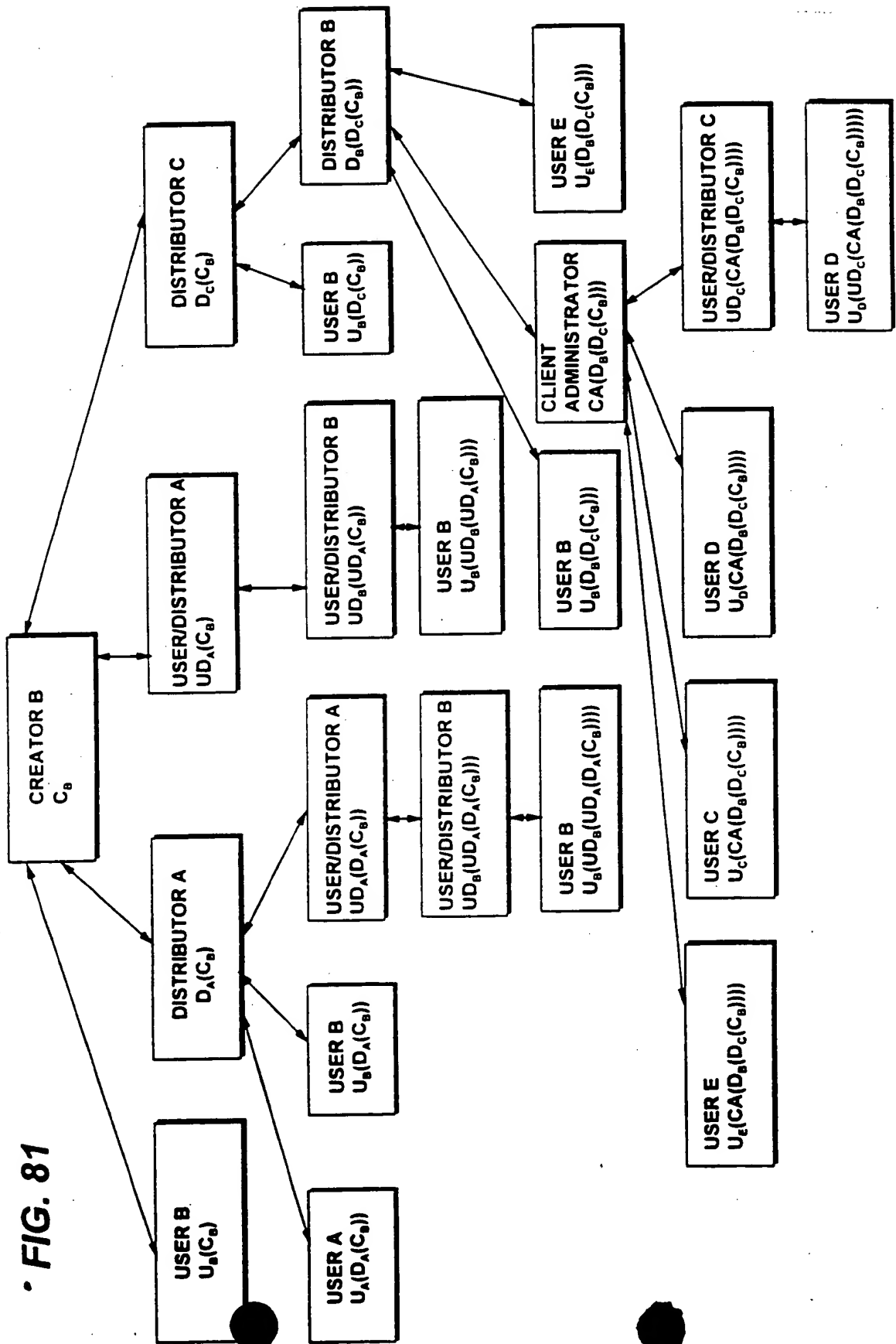


FIG.78



**FIG. 80**

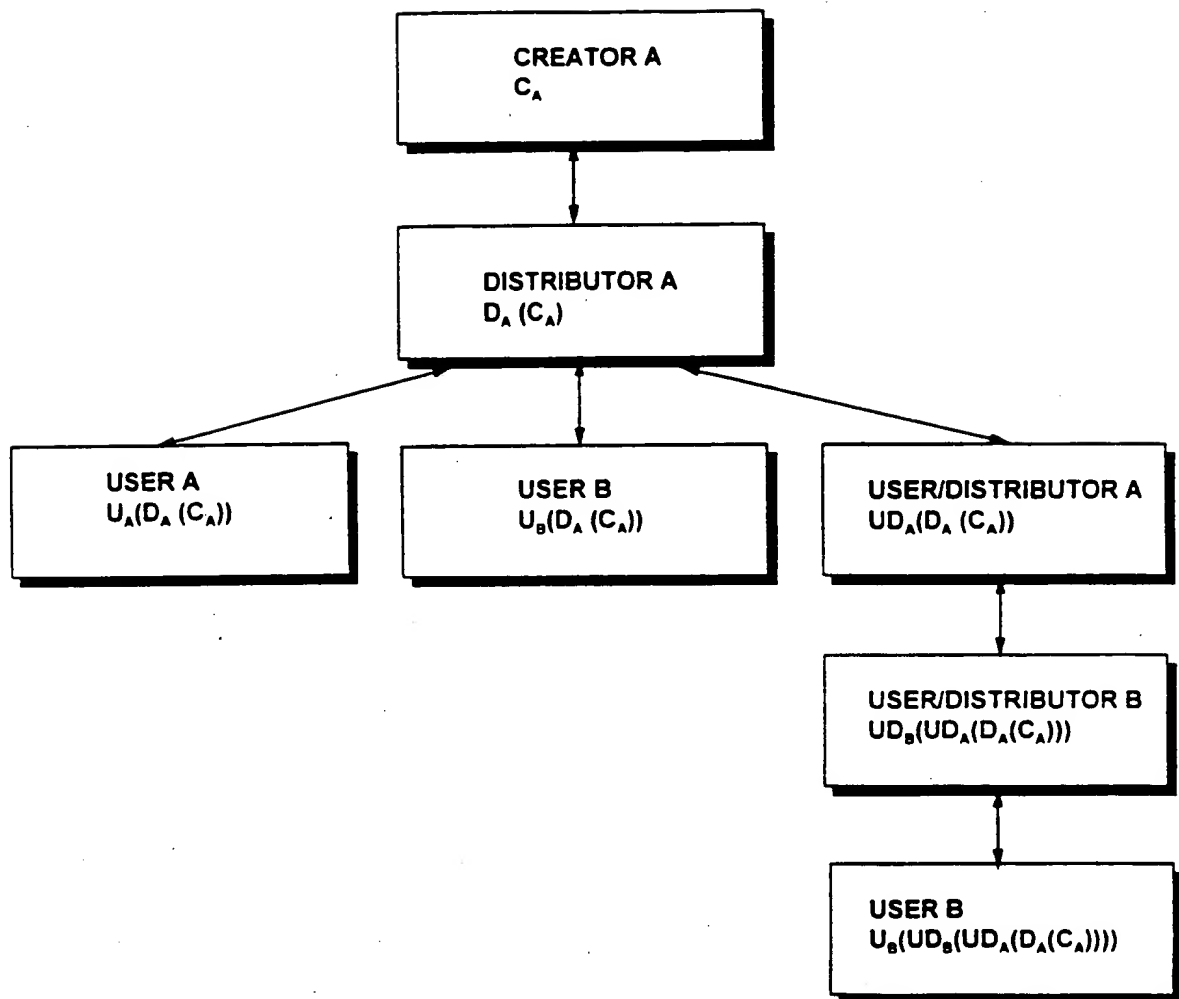


FIG. 83

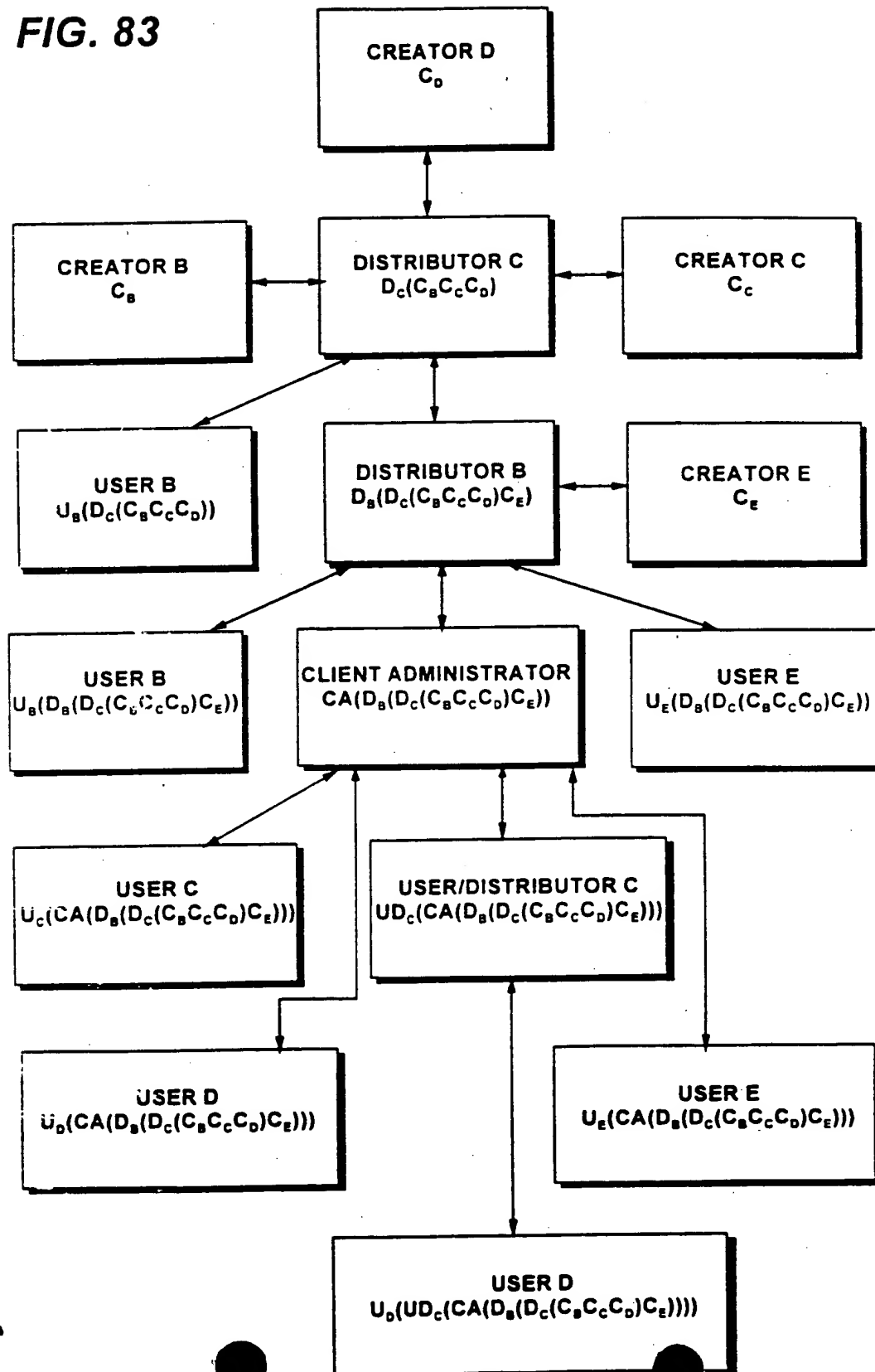


FIG. 82

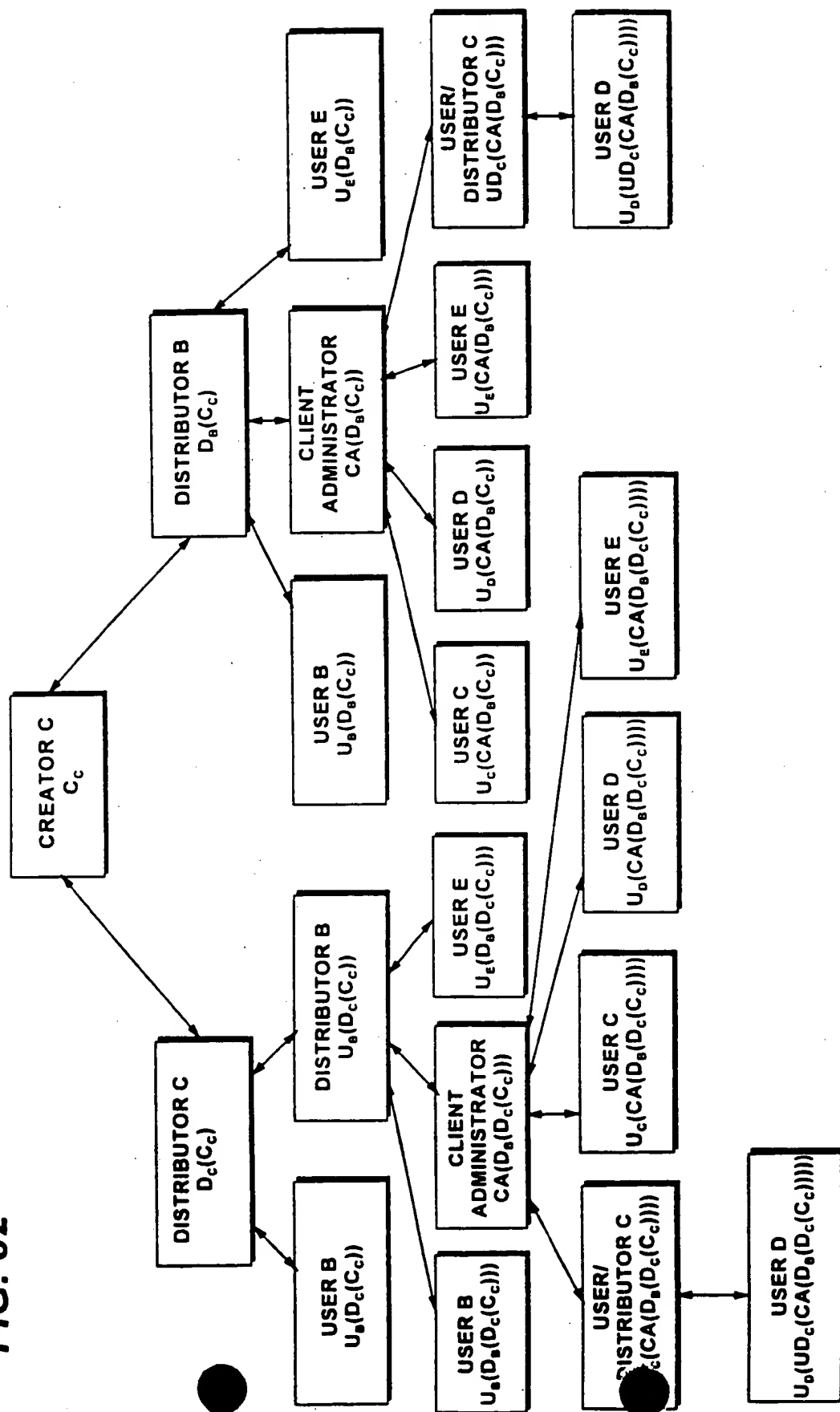


FIG. 85

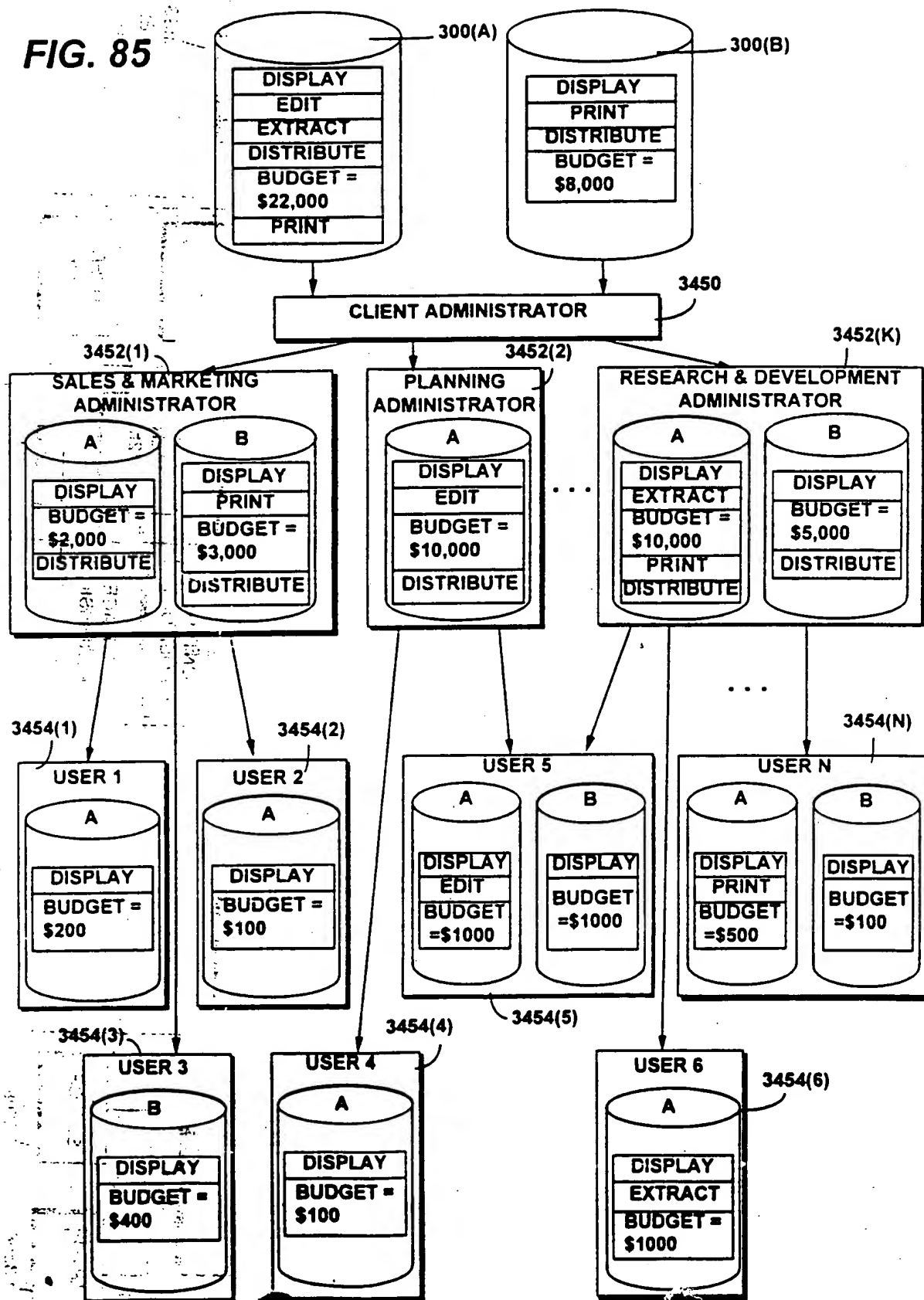
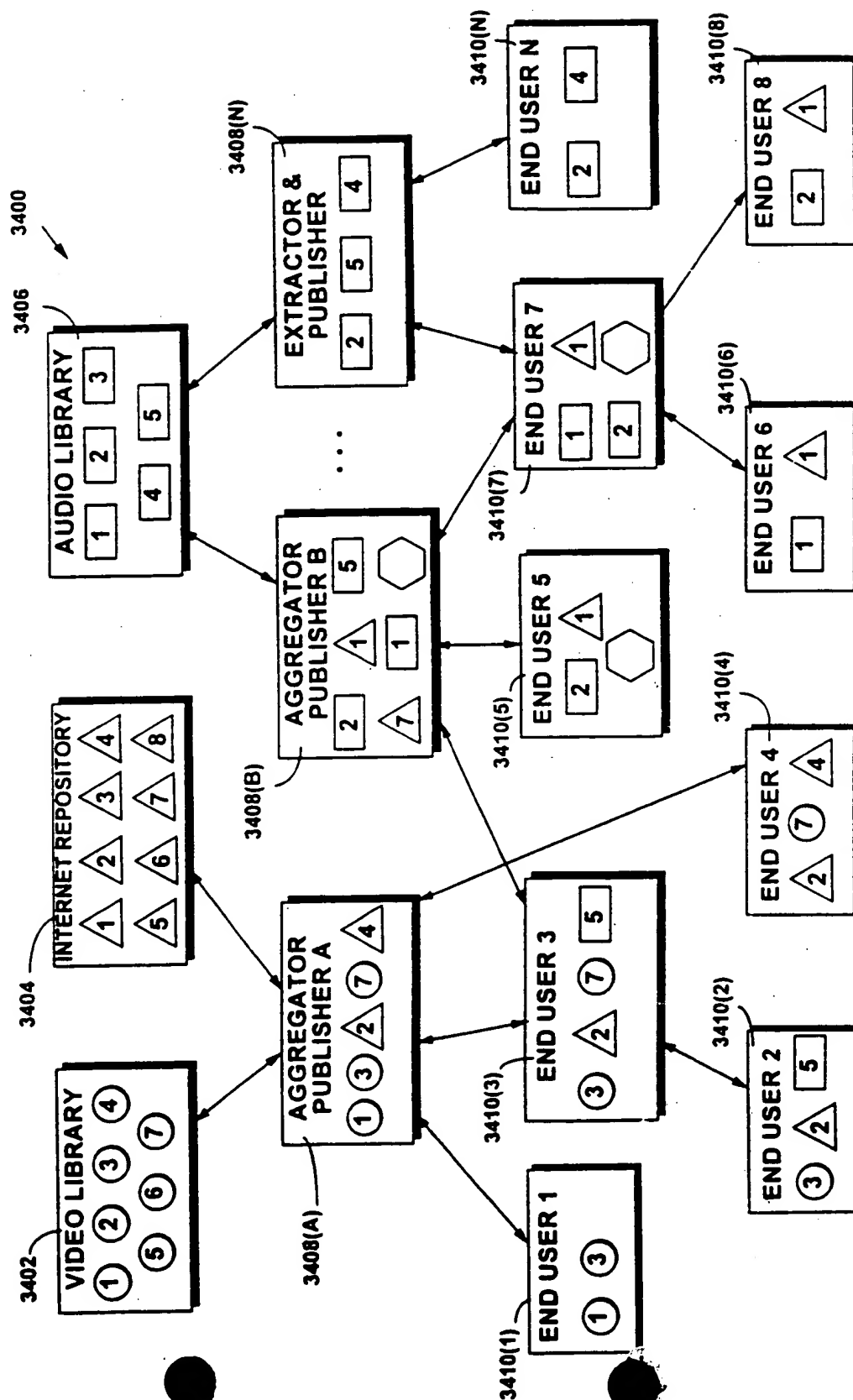




FIG. 84



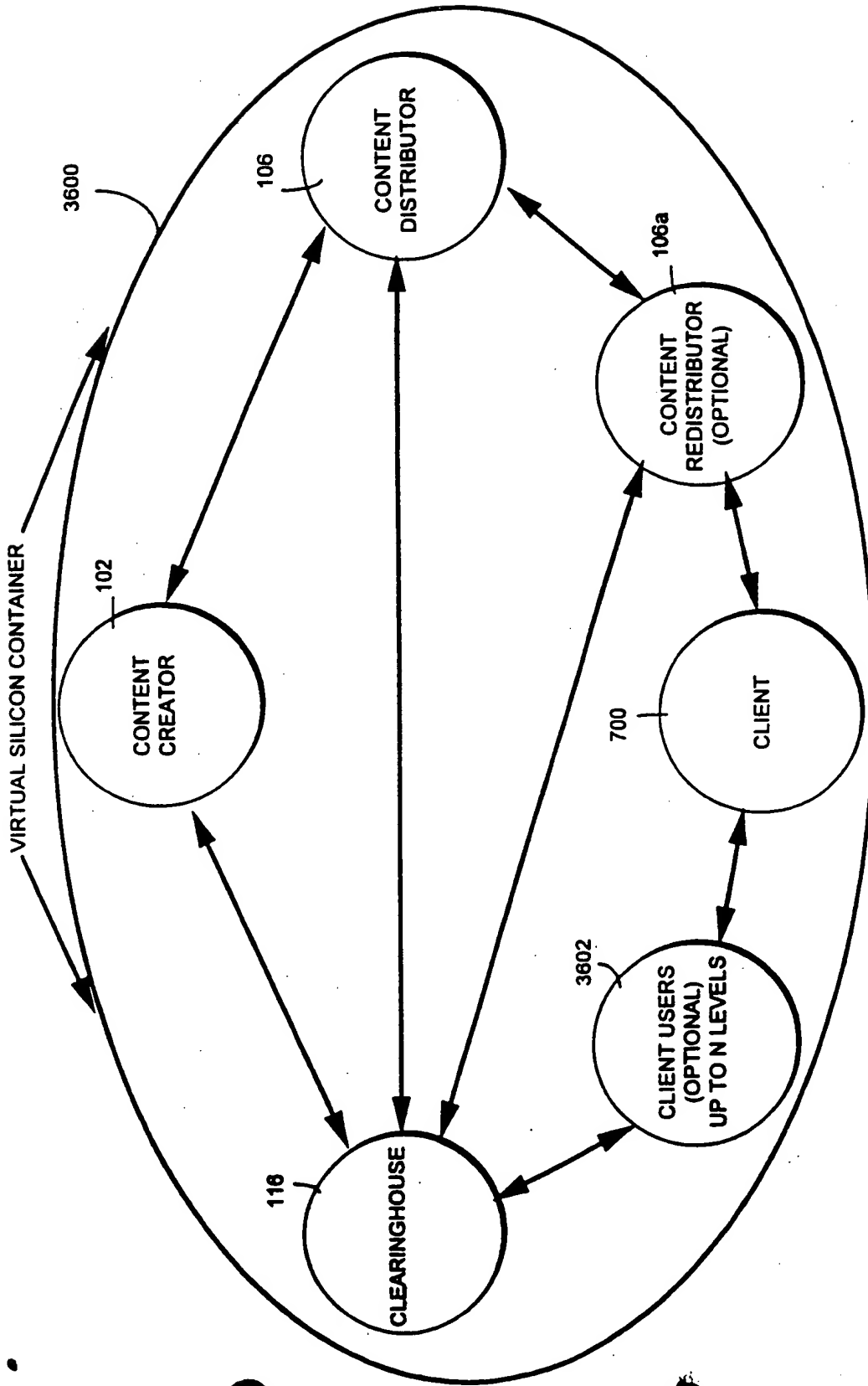


FIG. 87

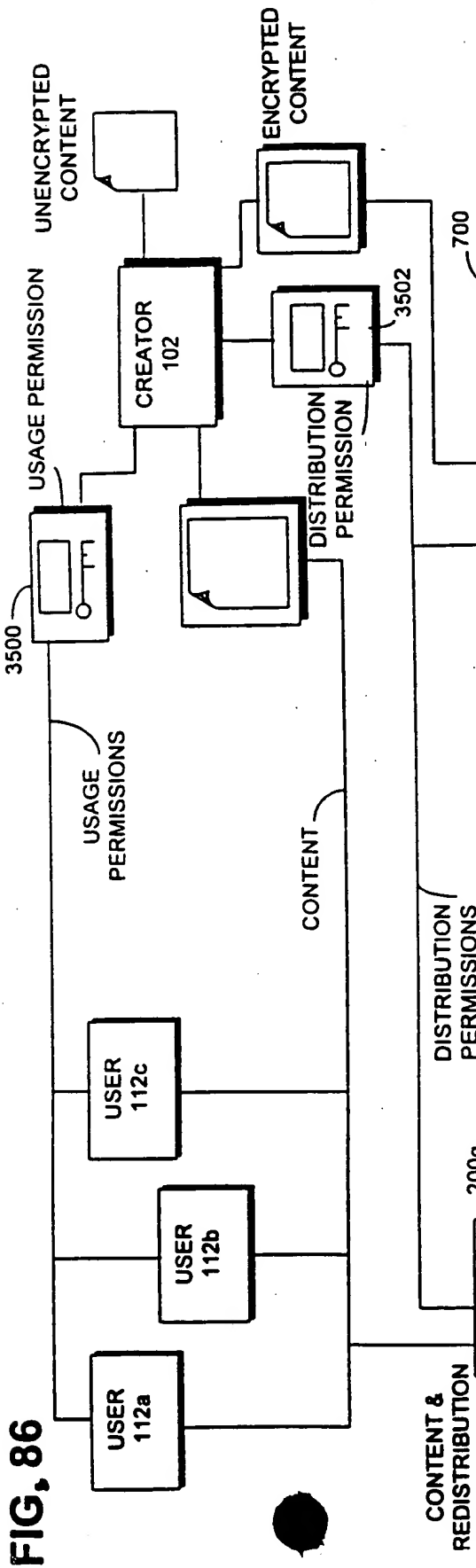


FIG. 86A

